Access DB# 11334

SEARCH REQUEST FORM

Scientific and Technical Information Center

Mail Box and Bldg/Room Location	E. Russel Number 30 8-39 75 n: Re	Examiner #: 62785 Date: 7-18-2002 Serial Number: 09/783, 298 Sults Format Preferred (circle) PAPER DISK E-MAIL
(MI-980) (MI-9807) If more than one search is subm	nitted, please priorit	tize searches in order of need.
Please provide a detailed statement of the Include the elected species or structures, l	search topic, and describ keywords, synonyms, acr that may have a special i	**************************************
Title of Invention: Matrix M	1 otalloprofeinas	se Inhibitors
J. Oven, M. Rajop.	adhje	Melson, J. Barrett, A. Carporter
Earliest Priority Filing Date: 2-1	4-2001	
		n (parent, child, divisional, or issued patent numbers) along with the
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STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher: Shannau	NA Sequence (#)	
Searcher Phone #: 308-4499	AA Sequence (#)	
Searcher Location:	Structure (#)	
Date Searcher Picked Up: Date Completed:///9/02	Bibliographic Litigation	
Scarcher Prep & Review Time:	Litigation	
Clerical Prep Time:	Patent Family	Sequence Systems WWW/Internet
Online Time:	Other	Other (specify)

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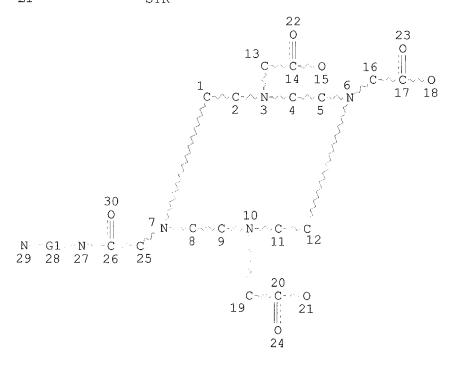
FILE COVERS 1907 - 19 Jul 2002 VOL 137 ISS 4 FILE LAST UPDATED: 18 Jul 2002 (20020718/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

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REP G1=(1-10) C NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 30

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STEREO ATTRIBUTES: NONE
L3
           286 SEA FILE=REGISTRY SSS FUL L1
L4
          27429 SEA FILE=REGISTRY ABB=ON PLU=ON CONJUGAT? OR METALLOPRO? OR
               CYTOTOXI?
L_5
             90 SEA FILE=HCAPLUS ABB=ON PLU=ON L3
        326269 SEA FILE-HCAPLUS ABB=ON PLU=ON L4 OR ?CONJUGAT? OR ?METALLOPR
L6
               O? OR ?CYTOTOXI?
L9
             19 SEA FILE=HCAPLUS ABB=ON PLU=ON L5 (L) (?CANCER? OR ?TUMOR? OR
                ?NEOPLAS? OR ?MALIG? OR ?MACUL? OR ?DEGENER?)
L10
             21 SEA FILE=HCAPLUS ABB=ON PLU=ON L5(L)L6
             35 SEA FILE-HCAPLUS ABB=ON PLU=ON L9 OR L10
L11
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L11 ANSWER 1 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2002:391572 HCAPLUS

DOCUMENT NUMBER:

136:406944

TITLE:

Conjugates of antioxidants with metal chelating

ligands for use in diagnostic and therapeutic

applications

INVENTOR(S):

Ranganathan, Ramachandra S.; Fan, Helen; Tweedle,

Michael F.

PATENT ASSIGNEE(S):

Bracco International BV, Neth.

SOURCE:

PCT Int. Appl., 71 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	CENT :	NO.		KI	ND	DATE			A)	PPLI	CATI	N NC	Э.	DATE			
WO	2002	0400	60	 A	 2	2002	0523		M(20	01-U:	S460	02	2001	1031		
	W:	ΑE,	AG,	AL,	ΑM,	AT,	ΑU,	ΑZ,	ΒA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KΡ,	KR,	KΖ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	NZ,	PL,	PT,
		RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TΤ,	ΤZ,	UA,	UG,	US,
		UZ,	VN,	YU,	ZA,	ZW,	ΑM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM		
	RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,
		DE,	DK,	ES,	FΙ,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,
		ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG	
PRIORITY	APP	LN.	INFO	.:				1	US 20	000-	2445	47P	P	2000	1031		
OTHER SO	DURCE	(S):			MAR	PAT	136:	4069	44								

AB The invention provides radiopharmaceuticals for diagnostic and therapeutic applications, conjugates of antioxidants with metal chelating ligands, intermediate compds., methods of making such radiopharmaceuticals, ligands, and intermediate compds., and kits for prepg. the radiopharmaceutical complexes.

428817-75-8P 428817-76-9P 428817-77-0P 428817-79-2P 428817-80-5P 428817-81-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of conjugates of antioxidants with metal chelating ligands for use in diagnostic and therapeutic applications)

ANSWER 2 OF 35 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2002:353971 HCAPLUS

DOCUMENT NUMBER:

136:365879

TITLE:

Gastrin receptor-avid peptide conjugates and

radionuclide complexes

INVENTOR(S):

Hoffman, Timothy J.; Volkert, Wynn A.; Sieckman, Gary;

Smith, Charles J.; Gali, Hariprasad

PATENT ASSIGNEE(S):

SOURCE:

U.S. Pat. Appl. Publ., 60 pp., Cont.-in-part of U.S.

Ser. No. 537,423.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

KIND DATE PATENT NO. APPLICATION NO. DATE ________ ______ US 2001-847134 20010502 US 2002054855 A1 20020509 PRIORITY APPLN. INFO.: US 2000-537423 A2 20000329

A compd. for use as a therapeutic or diagnostic radiopharmaceutical includes a group capable of complexing a medically useful metal attached to a moiety which is capable of binding to a gastrin releasing peptide receptor. A method for treating a subject having a neoplastic disease includes administering to the subject an effective amt. of a radiopharmaceutical having a metal chelated with a chelating group attached to a-moiety capable of binding to a gastrin releasing peptide receptor expressed on tumor cells with subsequent internalization inside of the cell. A method of forming a therapeutic or diagnostic compd. includes reacting a metal synthon with a chelating group covalently linked with a moiety capable of binding a gastrin releasing peptide receptor. Numerous examples are provided of the prepn., properties, gastrin releasing peptide receptor affinity, tumor uptake and biodistribution of DOTA radionuclide complexes conjugated to bombesin(7-14)NH2 via linkers such as 5-aminovaleric acid and 8-aminooctanoic acid.

422512-72-9P 422512-75-2P 422512-78-5P TΤ 422512-81-0P

> RL: PKT (Pharmacokinetics); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(gastrin receptor-avid peptide conjugates and radionuclide complexes: prepn., tumor uptake and biodistribution)

L11 ANSWER 3 OF 35 HCAPLUS COPYRIGHT 2002 ACS 2002:267288 HCAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER:

137:2480

TITLE:

Neuroendocrine tumor targeting: study of novel

gallium-labeled somatostatin radiopeptides in a rat

pancreatic tumor model

AUTHOR(S):

Froidevaux, Sylvie; Eberle, Alex N.; Christe, Martine; Sumanovski, Lazar; Heppeler, Axel; Schmiti, Jorg S.; Eisenwiener, Klaus; Beglinger, Christoph; Macke,

Helmut R.

CORPORATE SOURCE: Department of Research-ZLF, University Hospital and

University Children's Hospital, University of Basel,

Basel, Switz.

SOURCE: International Journal of Cancer (2002), 98(6), 930-937

CODEN: IJCNAW; ISSN: 0020-7136

PUBLISHER: Wiley-Liss, Inc.

DOCUMENT TYPE: Journal LANGUAGE: English

Somatostatin analogs labeled with radionuclides are of considerable interest in the diagnosis and therapy of SSTR-expressing tumors, such as gastroenteropancreatic, small cell lung, breast and frequently nervous system tumors. In view of the favorable phys. characteristics of the Ga isotopes 67Ga and 68Ga, enabling conventional tumor scintigraphy, PET and possibly internal radiotherapy, we focused on the development of a Ga-labeled somatostatin analog suitable for targeting SSTR-expressing tumors. For this purpose, 3 somatostatin analogs, OC, TOC and TATE were conjugated to the metal chelator DOTA and labeled with the radiometals 111In, 90Y and 67Ga. They were then evaluated for their performance in the AR4-2J pancreatic tumor model by testing SSTR2-binding affinity, internalization/externalization in isolated cells and biodistribution in tumor-bearing nude mice. Surprisingly, we found that, compared to 111In or 90Y, labeling with 67Ga considerably improved the biol. performance of the tested somatostatin analogs with respect to SSTR2 affinity and tissue distribution. 67Ga-labeled DOTA-somatostatin analogs were rapidly excreted from nontarget tissues, leading to excellent tumor-to-nontarget tissue uptake ratios. Of interest for radiotherapeutic application, [67Ga] DOTATOC was strongly internalized by AR4-2J cells. Furthermore, our results suggest a link between the radioligand charge and its kidney retention. The excellent tumor selectivity of Ga-DOTA somatostatin analogs together with the different applications of Ga in nuclear oncol. suggests that Ga-DOTA somatostatin analogs will become an important tool in the management of SSTR-pos. tumors.

IT 405263-92-5D, indium-111 complex

RL: DGN (Diagnostic use); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(67Ga- vs. 111In- and 90Y-labeled DOTA-somatostatin analogs for

neuroendocrine tumor targeting)

REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:264159 HCAPLUS

DOCUMENT NUMBER: 137:33520

TITLE: Synthesis, In Vitro Receptor Binding, and In Vivo

Evaluation of Fluorescein and Carbocyanine

Peptide-Based Optical Contrast Agents

AUTHOR(S): Achilefu, Samuel; Jimenez, Hermo N.; Dorshow, Richard

B.; Bugaj, Joseph E.; Webb, Elizabeth G.; Wilhelm, R. Randy; Rajagopalan, Raghavan; Johler, Jill; Erion,

Jack L.

CORPORATE SOURCE: Mallinckrodt Institute of Radiology, Washington

University School of Medicine, St. Louis, MO, 63110,

USA

SOURCE: Journal of Medicinal Chemistry (2002), 45(10),

2003-2015

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

AB Site-specific delivery of drugs and contrast agents to tumors protects normal tissues from the cytotoxic effects of drugs and enhances the contrast between normal and pathol. tissues. One approach to achieve selectivity is to target overexpressed receptors on the membranes of tumor cells and to visualize the tumors by a noninvasive optical imaging method. Accordingly, the authors conjugated fluorescein and carbocyanine dyes to somatostatin and bombesin receptor-avid peptides and examd. their receptor binding affinities. The authors also prepd. potential dual imaging probes consisting of a bioactive peptide for tumor targeting, a biocompatible dye for optical imaging, and a radioactive or paramagnetic metal chelator for scintigraphic or magnetic resonance imaging of tumors. Using these approaches, the resulting carbocyanine derivs. of somatostatin and bombesin analogs retained high binding for their resp. receptors. Further evaluation of representative mols. in rats bearing somatostatin- and bombesin-pos. tumors showed selective uptake of the agents by the tumor cells. Unlike carbocyanine derivs., the receptor binding of fluorescein-somatostatin peptide conjugates was highly sensitive to the type of linker and the site of fluorescein attachment on the nonreceptor binding region of the peptide. In general, the presence of flexible linkers disrupted binding affinity, possibly due to the interaction of the linker's thiourea group with the peptide's cyclic disulfide bond. While the receptor binding affinity of the dual probes was not dependent on the type of chelating group examd., it was affected by the relative positions of fluorescein and chelator on the lysine linker. For somatostatin compds., best results were obtained when the chelator was on the .alpha.-amino lysine linker and fluorescein was on the .epsilon.-amino group. In contrast, conjugation of the chelator to .epsilon.- and fluorescein to the .alpha.-amino lysine linker of bombesin peptides resulted in high receptor binding. These findings indicate that, despite their small size, conjugation of dyes to truncated somatostatin and bombesin peptide analogs results in promising diagnostic agents that retain high receptor binding activity in vitro. The results further show that these contrast agents can selectively and specifically localize in receptor-pos. tumors in rat models.

IT 436142-14-2P 436142-25-5P

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn., in vitro receptor binding, and in vivo evaluation of fluorescein- and carbocyanine-conjugates of peptides as tumor-targeting optical contrast agents)

REFERENCE COUNT:

THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2002:142702 HCAPLUS

DOCUMENT NUMBER:

136:209641

TITLE:

Perfluoroalkyl-containing tetraazacyclododecane metal complexes comprising sugar residues, method for their

preparation and use as imaging agents

INVENTOR(S):

Platzek, Johannes; Mareski, Peter; Niedballa, Ulrich; Raduechel, Bernd; Weinmann, Hanns-Joachim; Misselwitz,

Bernd

PATENT ASSIGNEE(S):

Schering Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 152 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent German

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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APPLICATION NO. DATE
                                     KIND DATE
         PATENT NO.
                                                                                  _____
         ______
                                         A1 20020221
                                                                               WO 2001-EP8499 20010723
         WO 2002014309
                 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
                W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

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DE 2000-10040381 20000811
         DE 10040381
                                                      20020225
                                                                                   AU 2001-89729
         AU 2001089729
                                            Α5
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                                                      20020620
                                                                                   US 2001-925622
                                                                                                                     20010810
         US 2002076379
                                            Α1
                                                                              DE 2000-10040381 A 20000811
PRIORITY APPLN. INFO.:
                                                                              US 2000-234952P P
                                                                                                                     20000926
                                                                              WO 2001-EP8499
                                                                                                             W 20010723
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OTHER SOURCE(S): MARPAT 136:209641

The invention relates to transition metal and rare earth complexes with tetraazacyclododecanetriactate or polyaminopolycarboxylic acids contg. perfluoroalkyl groups, sugar residues and amino acid which can be used i.v. lymphog., in tumor diagnosis and for infarct and necrosis imaging. For example, the Gd complex of 6-N-[1,4,7-tris(carboxylatomethyl)]-1,4,7,10-tetraazacyclododecane-10-N-[(pentanoyl-3-aza-4-oxo-5-methyl-5-yl)]-2-N-[1-O-.alpha.-D-carbonylmethylmannopyranose]-L-lysine-[1-(4-perfluorooctylsulfonyl)piperazine]amide was prepd. in a multistep process starting from N-benzyloxycarbonyl-L-lysine and Et trifluoroacetate, with subsequent reaction with 1-perfluoroctylsulfonylpiperazine, followed by deprotection and reaction with 1-O-.alpha.-D-carboxymethyl-2,3,4,6-tetra-O-benzylmannopyranose, deprotection and reaction with gadolinium complex with 1,4,7-tris(carboxymethyl)-10-(carboxy-3-aza-4-oxo-5-methylpent-5-yl)-1,4,7,10-tetraazacyclododecane.

IT 400708-43-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and reactant for prepn. of gadolinium/manganese complexes with polyaminopolycarboxylate contg. perfluoroalkyl and sugar and amino acid residues as imaging agents for use in lymphog. tumor diagnosis and infarct and necrosis imaging)

REFERENCE COUNT: 5 THE

5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 35 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2002:125733 HCAPLUS

DOCUMENT NUMBER:

136:321356

TITLE:

Chemical Synthesis of Escherichia Coli STh Analogues by Regioselective Disulfide Bond Formation: Biological Evaluation of an 111In-DOTA-Phe19-STh Analogue for

Specific Targeting of Human Colon Cancers

AUTHOR(S):

Gali, Hariprasad; Sieckman, Gary L.; Hoffman, Timothy
J.; Owen, Nellie K.; Mazuru, Dana G.; Forte, Leonard

R.; Volkert, Wynn A.

CORPORATE SOURCE:

Research Service, Harry S. Truman Memorial Veterans' Administration Hospital, Columbia, MO, 65201, USA

SOURCE:

Bioconjugate Chemistry (2002), 13(2), 224-231

CODEN: BCCHES; ISSN: 1043-1802

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

New human Escherichia coli heat-stable peptide (STh) analogs contg. a DOTA chelating group were synthesized by sequential and selective formation of disulfides bonds in the peptide. This synthetic approach utilizes three orthogonal thiol-protecting groups, Trt, Acm, and t-Bu, to form three disulfide bonds by successive reactions using 2-PDS, iodine, and silyl chloride-sulfoxide systems. The DOTA-STh conjugates exhibiting high guanylin/guanylate cyclase-C (GC-C) receptor binding affinities were obtained with >98% purity. In vitro competitive binding assays, employing T-84 human colon cancer cells, demonstrated the IC50 values of <2 nM for GC-C receptor binding suggesting that the new synthetic STh analogs are biol. active. In vitro stability studies of the 111In-DOTA-Phe19-STh conjugate incubated in human serum at 37 .degree.C under 5% CO2 atmosphere revealed that this conjugate is extremely stable with no observable decompn. at 24 h postincubation. HPLC anal. of mouse urine at 1 h pi of the 111In-DOTA-Phe19-STh conjugate showed only about 15% decompn. suggesting that the 111In-DOTA-Phe19-STh conjugate is highly stable, even under in vivo conditions. In vivo pharmacokinetic studies of the 111In-DOTA-Phe19-STh conjugate in T-84 human colon cancer derived xenografts in SCID mice conducted at 1 h pi showed an initial tumor uptake of 2.04 .+-. 0.30% ID/q at 1 h pi with efficient clearance from the blood pool (0.23 .+-. 0.14% ID/q, 1 h pi) by excretion mainly through the renal/urinary pathway (95.8 .+-. 0.2% ID, 1 h pi). High tumor/blood, tumor/muscle, and tumor/liver ratios of approx. 9:1, 68:1, and 26:1, resp., were achieved at 1 h pi The specific in vitro and in vivo uptake of the radioactivity by human colonic cancer cells highlights the potential of radiometalated-DOTA-STh conjugates as diagnostic/therapeutic radiopharmaceuticals.

IT 415697-94-8P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (synthesis of 111In-DOTA-Phe19-STh analog for targeting human colon

cancer)

IT 415697-89-1P 415697-90-4P 415697-91-5P 415697-92-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis of 111In-DOTA-Phe19-STh analog for targeting human colon cancer)

IT 415697-93-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (synthesis of 111In-DOTA-Phe19-STh analog for targeting human colon cancer)

REFERENCE COUNT:

THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 7 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2002:51305 HCAPLUS

DOCUMENT NUMBER:

136:123597

TITLE:

Preparation of stable radiopharmaceutical compositions

useful for tumor therapy

INVENTOR(S):

PATENT ASSIGNEE(S):

Liu, Shuang; Barrett, John A.; Carpenter, Alan P., Jr.

Dupont Pharmaceuticals Company, USA

SOURCE:

PCT Int. Appl., 127 pp.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE:

Patent English FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

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PATENT NO. KIND DATE
                                              APPLICATION NO. DATE
     TILLI NO. KIND DATE
     WO 2002004030 A2 20020117 WO 2001-US21261 20010705
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
              CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
              SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                            US 2000-216396P P 20000706
                           MARPAT 136:123597
OTHER SOURCE(S):
     The present invention provides stable radiopharmaceutical compns.
     including a therapeutic radionuclide and an effective stabilizing amt. of
     an arom. stabilizer (e.g., a polyhydroxylated arom. compd., an arom.
     amine, or a hydroxylated arom. amine), alone or in combination with other
     antioxidants or stabilizers, to inhibit radiolytic degrdn. of
     radiopharmaceuticals. The present invention also provides improved
     radiopharmaceutical formulations by the use of an arom. stabilizing agent
     (e.g., a polyhydroxylated arom. compd., an arom. amines, or a hydroxylated arom. amine), and/or low temp. storage. The present invention also
     provides processes for making stable radiopharmaceutical compns. The
     present invention also provides the use of the pharmaceutical compns. in
     medical therapy and/or medical diagnosis.
     250612-82-9P 277316-41-3P 277316-45-7P
ΙT
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
         (prepn. of chelator-optional linker-biomol. conjugates for
         use in stable radiopharmaceutical compns.)
     250612-07-8P 277315-68-1P 277315-72-7P
ΤТ
     RL: RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent);
     USES (Uses)
         (prepn. of chelator-optional linker-biomol. conjugates for
         use in stable radiopharmaceutical compns.)
L11 ANSWER 8 OF 35 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2002:30997 HCAPLUS
                            136:102654
DOCUMENT NUMBER:
                            Preparation of conjugates of peptides and
TITLE:
                            lanthanide-chelates for use as fluorescence diagnostic
                            materials in vivo or in vitro
                            Bauer, Michael; Becker, Andreas; Licha, Kai; Bornhop,
INVENTOR(S):
                            Darryl; Platzek, Johannes
                            Shering Aktiengesellschaft, Germany
PATENT ASSIGNEE(S):
                            Eur. Pat. Appl., 97 pp.
SOURCE:
                            CODEN: EPXXDW
DOCUMENT TYPE:
                            Patent
LANGUAGE:
                            German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
     PATENT NO. KIND DATE
                                               APPLICATION NO. DATE
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20020109 EP 2001-250164 20010514 EP 1170021 Α2 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO US 2000-571407 A 20000515 PRIORITY APPLN. INFO.: MARPAT 136:102654 OTHER SOURCE(S): Synthesis of title compds., consisting of peptides, fragments, or analogs, composed of either D- or L-amino acids, based on vasoactive intestinal peptide, somatostatin, or neurotensin sequences, bearing chelating groups, were prepd. for use as fluorescent diagnostic materials for identification of tumors of the gastrointestinal tract, esophagus, urogenital tract, or lung. Peptide D-Phe-c[Cys-Phe-D-Trp-Lys-Thr-Cys] was conjugated to Tb complex of (S)-[(HO2CCH2)2NCH2CH2]2NCH(CH2-4-C6H4OCH2CO2H)CO2H, prepd. in three steps from (S)-[(PhCH2OC(O)CH2)2NCH2CH2]2NCH(CH2-4-C6H4OCH2CO2H)C(O)OCH2Ph, to give the title terbium complex. complexes contg. europium, gadolinium, or bismuth, with cyclic or straight chain peptides, and substituted 1,4,7,10-tetraazacyclododecane chelating portions, were also prepd. Over two hundred peptide sequences were claimed as potential fragments of the title complexes. **387389-45-9DP**, europium complex ΙT RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of conjugates of peptides and lanthanide-chelates for use as fluorescence diagnostic materials in vivo or in vitro) L11 ANSWER 9 OF 35 HCAPLUS COPYRIGHT 2002 ACS 2001:935452 HCAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: 136:70083 Pharmaceuticals for the imaging of angiogenic TITLE: disorders for use in combination therapy Rajopadhye, Milind; Edwards, D. Scott; Barrett, John INVENTOR(S): A.; Carpenter, Alan P., Jr.; Heminway, Stuart J.; Liu, Shuang; Singh, Prahlad PATENT ASSIGNEE(S): Dupont Pharmaceuticals Company, USA PCT Int. Appl., 306 pp. SOURCE: CODEN: PIXXD2 Patent DOCUMENT TYPE: English LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: APPLICATION NO. DATE KIND DATE PATENT NO. WO 2001097860 A2 20011227 WO 2001-US20108 20010621 WO 2001097860 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.: US 2000-213206P P 20000621 US 2000-213206P P 20000621 MARPAT 136:70083 OTHER SOURCE(S): Compds. (Q) d-Ln-Ch (Q is a peptide, d = 1-10, Ln is a linking group, Ch is a metal-bonding unit) were prepd. for use in the diagnosis and treatment of cancer in combination therapy in a patient. The present invention also

provides novel compds. useful for the treatment of rheumatoid arthritis

(no data). Thus, cyclo{Arg-Gly-Asp-D-Tyr(N-[2-[[[5-[carbonyl]-2-

pyridinyl]hydrazono]methyl]benzenesulfonic acid]-3-aminopropyl)-Val} was prepd. by acylation of cyclo{Arg-Gly-Asp-D-Tyr(3-aminopropyl)-Val} with 2-[[[5-[[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]-2-pyridinyl]hydrazono]methyl]benzenesulfonic acid monosodium salt and converted into radiopharmaceutical 99mTc(VnA)(tricine)(phosphine), where VnA represents the vitronectin receptor antagonist.

IT 250612-06-7P 250612-07-8P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of peptide derivs. for the imaging of angiogenic disorders and the treatment of **cancer** in combination therapy)

TT 250612-82-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of peptide derivs. for the imaging of angiogenic disorders and the treatment of **cancer** in combination therapy)

L11 ANSWER 10 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2001:935440 HCAPLUS

DOCUMENT NUMBER:

136:70082

TITLE:

Vitronectin receptor antagonist pharmaceuticals for

use in combination therapy

INVENTOR(S):

Harris, Thomas D.; Barrett, John A.; Carpenter, Alan

P., Jr.; Rajopadhye, Milind

PATENT ASSIGNEE(S):

Dupont Pharmaceuticals Company, USA

SOURCE:

PCT Int. Appl., 542 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA'	rent :	NO.		KI	ND	DATE			APPLICATION NO. D					DATE			
WO	2001	0978	 48	 A:	 2	2001	1227		M	20	01-U	S197:	 93	2001	0621		
	W:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
														GE,			
		HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,
		LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PL,	PT,	RO,	RU,
		SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,	UZ,	VN,	YU,
						BY,											
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,
														PT,			
														TD,			
PRIORIT	Y APP													2000			
OTHER S	OURCE	(S):			MAR	PAT	136:	7008	2								

Anticancer agents of the formulas (Q)d-Ln-Ch or (Q)d-Ln-(Ch)d (I) [Q is a residue having a quinolone-type moiety; Ln is a linking group; Ch is a metal-bonding unit; d = 1-10; d' = 1-100] and kits contg. I are prepd. for the treatment of cancer in combination therapy in a patient. I are comprised of a targeting moiety that binds to a receptor that is upregulated during angiogenesis, an optional linking group, and a therapeutically effective radioisotope or diagnostically effective imageable moiety. I may be used with radioisotopes; in addn., I may be used in conjunction with radio- and photosensitizers, ligands such as TPPTS or tricine, and reducing agents such as tin(II). The present invention provides novel compds. useful for the treatment of rheumatoid arthritis (no data).

IΤ

277315-66-9P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (prepn. of peptide- and tetraazadodecane-contg. quinolones and their radioactive metal complexes as anticancer agents) 277315-65-8P 277315-67-0P 277315-68-1P IT 277315-69-2P 277315-70-5P 277315-72-7P 277315-76-1P 277315-77-2P 277315-79-4P 277315-80-7P 277316-60-6P 277316-61-7P 277316-62-8P 277316-63-9P 277316-64-0P 277316-65-1P 277316-66-2P 277316-67-3P 277316-68-4P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (prepn. of peptide- and tetraazadodecane-contg. quinolones and their radioactive metal complexes as anticancer agents) 277316-20-8P 277316-34-4P 277316-39-9P ΙT 277316-41-3P 277316-45-7P 277316-52-6P 277316-56-0P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. of peptide- and tetraazadodecane-contg. quinolones and their radioactive metal complexes as anticancer agents) L11 ANSWER 11 OF 35 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2001:868272 HCAPLUS 136:11092 DOCUMENT NUMBER: TITLE: Contrast agents Klaveness, Jo; Tolleshaug, Helge INVENTOR(S): PATENT ASSIGNEE(S): Nycomed Imaging AS, Norway PCT Int. Appl., 77 pp. SOURCE: CODEN: PIXXD2 DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION: APPLICATION NO. DATE KIND DATE PATENT NO. ----_____ _____ WO 2001089584 A2 20011129 WO 2001089584 A3 20020502 20010523 20011129 WO 2001-N0215 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG PRIORITY APPLN. INFO.: NO 2000-2644 A 20000523 US 2000-210061P P 20000607

AB This invention relates to contrast agents and the use of these contrast agents for diagnosis of diseases in humans and animals based on mapping of metabolic activity. The contrast agents can be used to identify tissue or cells with metabolic activity or enzymic activity deviating from the normal. A contrast agent substrate changes pharmacodynamic and/or

pharmacokinetic properties upon a chem. modification from a contrast agent substrate to a contrast agent product in a specific enzymic transformation, thereby detecting areas of disease upon a deviation in the enzyme activity from the normal. Examples showing prepn. of conjugates which are substrates for MMP-7, cathepsin D, esterase, transglutaminase, and caspase-3 are given, as well as methods for prepg. microbubble dispersions. The conjugates are suitable for MRI, PET and scintigraphy. 374804-69-0P

RL: BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process)

(peptide-conjugated gadolinium and technetium complexes as contrast agents: prepn. and formulation as microbubbles)

L11 ANSWER 12 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:617999 HCAPLUS

DOCUMENT NUMBER:

135:180952

TITLE:

ΙΤ

Preparation of matrix metalloproteinase inhibitors

INVENTOR(S):

Decicco, Carl P.; Nelson, David J.; Barrett, John A.; Carpenter, Alan P., Jr.; Duran, James J.; Rajopadhye,

Milind

PATENT ASSIGNEE(S):

Dupont Pharmaceuticals Company, USA

SOURCE:

PCT Int. Appl., 179 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

APPLICATION NO. DATE KIND DATE PATENT NO. -----____ _____ WO 2001060820 A2 20010823 WO 2001060820 A3 20020221 WO 2001-US4848 20010215 20010823

W: AU, BR, CA, CN, CZ, EE, HU, IL, IN, JP, KR, LT, LV, MX, NO, NZ, PL, RO, SG, SI, SK, TR, UA, VN, ZA, AM, AZ, BY, KG, KZ, MD, RU,

TJ, TM

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,

PT, SE, TR PRIORITY APPLN. INFO.:

US 2000-182627P P 20000215

OTHER SOURCE(S):

MARPAT 135:180952

GΙ

AB Compds. Qd-Ln-Ch (Qd is 1-10 targeting moieties; Ln is a linking group; Ch is a chelator) were prepd. The chelator is able to conjugate a cytotoxic radioisotope. The targeting moiety, e.g., R1NHCOCR2R3NR4R5 [R1 = OH or Ph, which is optionally substituted with a bond to the linking group or to the chelator, provided when R1 = Ph, R3 = 2-[(1-carboxyethyl)amino]alkanoyl; R2, R3, R4, R5 = H, C1-6, which is alkyl optionally substituted with a bond to the linking group or to the chelator; R2R3C or R4R5N may form a ring], is a matrix metalloproteinase inhibitor. Thus, peptidomimetic I was prepd. by coupling reactions of (3-aminopropyl)carbamic acid tert-Bu ester with oxaazabicyclo[10.2.2]hexadecatrienecarboxylic acid derivs. Compds. of the invention were found to be active in matrix metalloproteinase inhibitory assays.

IT 355149-94-9P 355149-96-1P 355149-97-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of matrix metalloproteinase inhibitors)

L11 ANSWER 13 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2001:617870 HCAPLUS

DOCUMENT NUMBER:

135:180950

TITLE:

Preparation of matrix metalloproteinase inhibitors as

diagnostic agents

INVENTOR(S):

Carpenter, Alan P., Jr.; Rajopadhye, Milind

DuPont Pharmaceuticals Company, USA

SOURCE:

PCT Int. Appl., 205 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT ASSIGNEE(S):

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001060416		20010823	WO 2001-US4870	20010215

W: AU, BR, CA, CN, CZ, EE, HU, IL, IN, JP, KR, LT, LV, MX, NO, NZ,

PL, RO, SG, SI, SK, UA, VN, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR

PRIORITY APPLN. INFO.:

US 2000-182712P P 20000215

OTHER SOURCE(S):

MARPAT 135:180950

GΙ

Diagnostic agents comprising a diagnostic metal or an echogenic gas and AΒ compds. Qd-Ln-R (Qd is 1-10 targeting moieties; Ln is a linking group; R is a chelator or a surfactant) were prepd. The chelator is able to conjugate the diagnostic metal. The surfactant is capable of forming an echogenic gas filled lipid sphere or microbubble. The targeting moiety, e.g., R1NHCOCR2R3NR4R5 [R1 = OH or Ph, which is optionally substituted with a bond to the linking group or to the chelator, provided when R1 = Ph, R3 = 2-[(1-carboxyethyl)amino]alkanoyl; R2, R3, R4, R5 = H, C1-6,which is alkyl optionally substituted with a bond to the linking group or to the chelator; R2R3C or R4R5N may form a ring], is a matrix metalloproteinase inhibitor. Thus, peptidomimetic I was prepd. by coupling reactions of (3-aminopropyl) carbamic acid tert-Bu ester with oxaazabicyclo[10.2.2]hexadecatrienecarboxylic acid derivs. Compds. of the invention were found to be active in matrix metalloproteinase inhibitory assays.

IT 355149-94-9P 355149-96-1P 355149-97-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of matrix metalloproteinase inhibitors)

L11 ANSWER 14 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2001:421741 HCAPLUS

DOCUMENT NUMBER:

135:177368

TITLE:

90Y and 177Lu Labeling of a DOTA-Conjugated

Vitronectin Receptor Antagonist Useful for Tumor

Therapy

AUTHOR(S):

Liu, Shuang; Cheung, Eric; Ziegler, Marisa C.;

Rajopadhye, Milind; Edwards, D. Scott

CORPORATE SOURCE:

Medical Imaging Division, DuPont Pharmaceuticals

Company, North Billerica, MA, 01862, USA SOURCE:

Bioconjugate Chemistry (2001), 12(4), 559-568

CODEN: BCCHES; ISSN: 1043-1802

American Chemical Society PUBLISHER:

DOCUMENT TYPE: Journal English LANGUAGE:

The 90Y and 177Lu complexes (RP697 and RP688, resp.) of a DOTA-conjugated vitronectin receptor antagonist (SU015: 2-(1,4,7,10-tetraaza-4,7,10tris(carboxymethyl)-1-cyclododecyl)acetyl-Glu(cyclo{Lys-Arg-Gly-Asp-D-Phe})-cyclo{Lys-Arg-Gly-Asp-D-Phe}) were prepd. by reacting SU015 with the radiometal chloride in ammonium acetate buffer (pH > 7.2) in the presence of an antioxidant (sodium gentisate, GA). Through a series of radiolabeling expts., it was found that there are many factors influencing the rate of 90Y chelation and the radiolabeling efficiency of SU015. These include the purity of SU015, the pH, reaction temp., and heating time, as well as the presence of trace metal contaminants, such as Ca2+, Fe3+, and Zn2+. The chelation of 90Y by SU015 is slow, so that heating at elevated temps. (50-100 .degree.C) is needed to complete the 90Y-labeling. The rate of 90Y chelation is also dependent on the pH of the reaction mixt. Under optimized radiolabeling conditions (pH 7.2-7.8 and heating at 50-100 .degree.C for 5-10 min), the min. amt. of SU015 required to achieve 95% RCP for RP697 is .apprx.25 .mu.g for 20 mCi of 90YCl3 corresponding to a SU015:90Y ratio of .apprx.30:1.

250612-06-7P 250612-81-8P TΨ

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(90Y and 177Lu labeling of DOTA-conjugated vitronectin

receptor antagonist useful for tumor therapy)

THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 60 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 15 OF 35 HCAPLUS COPYRIGHT 2002 ACS 2001:421740 HCAPLUS ACCESSION NUMBER:

135:185318 DOCUMENT NUMBER:

Stabilization of 90Y-Labeled DOTA-Biomolecule TITLE:

Conjugates Using Gentisic Acid and Ascorbic Acid

Liu, Shuang; Edwards, D. Scott AUTHOR(S):

Medical Imaging Division, DuPont Pharmaceuticals CORPORATE SOURCE:

Company, North Billerica, MA, 01862, USA

Bioconjugate Chemistry (2001), 12(4), 554-558 SOURCE:

CODEN: BCCHES; ISSN: 1043-1802

American Chemical Society PUBLISHER:

DOCUMENT TYPE: Journal English LANGUAGE:

Radiolytic degrdn. of radiolabeled compds. is a major challenge for the development of new therapeutic radiopharmaceuticals. The goal of this study is to explore the factors influencing the soln. stability of a 90Y-labeled DOTA-peptide conjugate (RP697), including the amt. of total activity, the activity concn., the stabilizer concn., and the storage temp. In general, the rate of radiolytic decompn. of RP697 is much slower at the lower activity concn. (<4 mCi/mL) than that at the higher concn. (>10 mCi/mL). RP697 remains relatively stable at the 20 mCi level and room temp. while it decomps. rapidly at the 100 mCi level under the same storage conditions. Radical scavengers, such as gentisic acid (GA) and ascorbic acid (AA), were used in combination with the low temp. (-78 .degree.C) to prevent the radiolytic decompn. of RP697. It was found that RP697 remains stable for at least 2 half-lives of 90Y when GA or AA (10 mg for 20 mCi of 90Y) is used as a stabilizer when the radiopharmaceutical compn. is stored at -78 .degree.C. The stabilizer (GA and AA) can be

added into the formulation either before or after radiolabeling. The post-labeling approach is particularly useful when the use of a large amt. of the stabilizer interferes with the radiolabeling. The radiopharmaceutical compn. developed in this study can also apply to other 90Y-labeled DOTA-biomol. conjugates. The amt. of the stabilizer used in the radiopharmaceutical compn. and storage temp. should be adjusted according to the sensitivity of the radiolabeled DOTA-biomol. conjugate toward radiolytic decompn.

IT 250612-06-7

RL: RCT (Reactant); RACT (Reactant or reagent) (stabilization of 90Y-labeled DOTA-biomol. conjugates using gentisic acid and ascorbic acid)

REFERENCE COUNT:

THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 16 OF 35 HCAPLUS COPYRIGHT 2002 ACS

30

ACCESSION NUMBER:

2001:35363 HCAPLUS

DOCUMENT NUMBER:

135:149232

TITLE:

Comparative dosimetry of copper-64 and

yttrium-90-labeled somatostatin analogs in a

tumor-bearing rat model

AUTHOR(S):

Lewis, Jason S.; Laforest, Richard; Lewis, Michael R.;

Anderson, Carolyn J.

CORPORATE SOURCE:

Mallinckrodt Institute of Radiology, Washington

University School of Medicine, St. Louis, MO, 63110,

USA

SOURCE:

Cancer Biotherapy & Radiopharmaceuticals (2000),

15(6), 593-604

CODEN: CBRAFJ; ISSN: 1084-9785

Mary Ann Liebert, Inc.

PUBLISHER: DOCUMENT TYPE:

LANGUAGE:

Journal English

90Y-DOTA-tyrosine3-octreotide (90Y-DOTA-Y3-OC) is currently being evaluated as a radiotherapy agent for trials in patients with somatostatin-receptor pos. cancer. In this study, the authors compared the estd. absorbed doses to human organs, as well as to a CA20948 rat tumor, of 90Y- and 64Cu-labeled DOTA-Y3-OC and DOTA-Y3-octreotate (DOTA-Y3-TATE). Assuming that the radiopharmaceutical biodistributions are the same in rodents and humans, human absorbed dose ests. were obtained from rat biodistribution data. The absorbed doses of90Y-DOTA-Y3-TATE were detd. from the biodistribution of the 88Y-labeled peptide, with and without co-injection of a therapeutic amt. of the 90Y-labeled peptide. Addnl., the absorbed doses of 90Y-DOTA-Y3-TATE were detd. from data using 2 different biodistribution endpoints, 48 h and 168 h. Human absorbed dose ests. were calcd. using MIRD methodol. assuming that rats and humans have the same biodistribution. The biodistribution of the radiolabeled somatostatin analogs was dependent on the peptide and the radiometal. For 90Y-DOTA-Y3-TATE, the tumor dose was dependent on both the administration of therapeutic 90Y-peptide and the biodistribution endpoint. These data suggested that, for both radionuclides, the TATE derivs. imparted a higher absorbed dose to the tumor than the OC analogs. 90Y-DOTA-Y3-OC and64Cu-DOTA-Y3-OC were comparable with respect to their tumor-to-normal tissue dose ratios, while 90Y-DOTA-Y3-TATE appeared to have distinct advantages over 64Cu-DOTA-Y3-TATE.

177943-88-3D, Cu-64 complexes 177943-88-3D, Y-88 complexes 177943-88-3D, Y-90 complexes 204318-14-9D, Cu-64 complexes 204318-14-9D, Y-88 complexes 204318-14-9D, Y-90 complexes

RL: ANT (Analyte); BPR (Biological process); BSU (Biological study,

unclassified); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PROC (Process); USES (Uses) (Cu-64 and Y-90-labeled somatostatin analogs dosimetry in a

tumor-bearing rat model)

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 17 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2000:661180 HCAPLUS

DOCUMENT NUMBER:

133:249059

TITLE:

Radionuclide conjugates with DOTA-biotin derivatives

for diagnosis and therapy

INVENTOR(S):

Griffiths, Gary L.; Hansen, Hans; Govindan, Serengulam

V.

PATENT ASSIGNEE(S):

Immunomedics, Inc., USA

SOURCE:

U.S., 10 pp., Cont.-in-part of U.S. Ser. No. 486,166,

abandoned.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 14

PATENT INFORMATION:

PA:	CENT	NO.		KI	ND	DATE			A.	PPLI	CATI	N NC	Э.	DATE			
US	6120	768		Α		2000	0919			s 19				1997			
US	5736	119		Α		1998	0407		Ü	S 199	95-40	0996	0	1995	0323		
US	5922	302		A		1999	0713		U:	S 199	95-4	4065	2	1995	0515		
WO	9930	745		A.	2	1999	0624		M	O 199	98-U	3265	79	1998	1215		
WO	9930	745		A	3	2000	0113										
	W:	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,
														KE,			
														MW,			
														TR,			
														ТJ,		·	
	RW:													CY,		DK,	ES,
	100.													вJ,			
							MR,							•	•	•	•
77.1.1	9918						0705					3258		1998	1215		
PRIORITY					.l.	1000	0,05							1993			
FRIORII.	L AFF.	TTITA •	TIVEO	• •					US 1					1995			
									US 1					1995			
									US 1					1996			
									US 1					1997			
									-					1998			
									WO 1					1998			

AB A radionuclide-chelator conjugate compn. for detecting and/or treating lesions in a patient comprises pre-targeting the cell, tissue, or pathogen with a substrate, using a targeting protein that specifically binds a marker substance on the target cell, tissue, or pathogen and to which the substrate is directly or indirectly bound. Parenteral injection comprises a chelate conjugate of biotin, a chelator, and a chelatable detection or therapeutic agent, and allows the compn. to accrete at the targeted cell, tissue, or pathogen. The chelate conjugate is purified by liq. chromatog. after chelate formation, or further comprises a blood transit-modifying linker or addend that is covalently bound within the chelate conjugate, or both. The detection or therapeutic agent of the invention are used to detect or treat cancer, infectious diseases, or cardiovascular diseases. Prepn. of biotin-D-Phe-D-Lys-DOTA is presented.

192221-17-3P 192221-18-4P 192221-19-5P

245758-39-8P 294637-28-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(radionuclide conjugates contg. DOTA-biotin derivs. for

diagnosis and therapy)

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 18 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2000:602793 HCAPLUS

DOCUMENT NUMBER:

134:127855

TITLE:

OctreoTher: ongoing early clinical development of a

somatostatin-receptor-targeted radionuclide

antineoplastic therapy

AUTHOR(S):

Smith, M. Charles; Liu, Jingou; Chen, Tianling; Schran, Horst; Yeh, Ching-Ming; Jamar, Francois; Valkema, Roelf; Bakker, Willem; Kvols, Larry;

Krenning, Eric; Pauwels, Stanislas

CORPORATE SOURCE:

Novartis Pharmaceuticals Corporation, East Hanover,

NJ, 07936-1080, USA

SOURCE:

Digestion (2000), 62(Suppl. 1), 69-72

CODEN: DIGEBW; ISSN: 0012-2823

PUBLISHER: DOCUMENT TYPE:

S. Karger AG Journal

DOCUMENT TYPE:
LANGUAGE:

English

OctreoTher (90Y-DOTA-D-Phe1-Tyr3-octreotide, a.k.a. 90Y-SMT 487) consists AΒ of a somatostatin peptide analog (Tyr3-octreotide), coupled with a complexing moiety (DOTA), and labeled with a tightly bound beta-emitter (yttrium-90). By targeting somatostatin receptor-pos. tumors (as imaged by OctreaScan) it may deliver a tumoricidal dose of radiation. clin. trials, conducted in patients with neuroendocrine tumors, established the safety and tolerability of the dose selected for further study and demonstrated the capacity of OctreoTher to deliver radiation doses to tumors that resulted in significant neuroendocrine tumor shrinkage. Novartis-sponsored phase II studies will soon begin to test the efficacy of OctreoTher in breast and small cell lung cancer. A fixed-dose regimen of 120 mCi/cycle .times. 3 cycles administered with concomitant amino acid infusion has been chosen for the study. Phase I data and published literature support that this fixed dose regimen will be safely tolerated.

IT 204318-14-9D, 90Y-complexes

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(somatostatin-receptor-targeted radionuclide antineoplastic therapy with OctreoTher)

REFERENCE COUNT:

14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 19 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1999:693550 HCAPLUS

DOCUMENT NUMBER:

132:9203

TITLE:

DOTA-lanreotide: A novel somatostatin analog for tumor

diagnosis and therapy

AUTHOR(S):

Smith-Jones, Peter M.; Bischof, Claudia; Leimer,

Maria; Gludovacz, Doris; Angelberger, Peter; Pangerl, Thomas; Peck-Radosavljevic, Markus; Hamilton, Gerhard;

Kaserer, Klaus; Kofler, Anne; Schlagbauer-Wadl,

Hermine; Traub, Tatjana; Virgolini, Irene

CORPORATE SOURCE:

Departments of Nuclear Medicine, University of Vienna,

Vienna, A-1090, Austria

SOURCE:

Endocrinology (1999), 140(11), 5136-5148

CODEN: ENDOÃO; ISSN: 0013-7227

PUBLISHER:

Endocrine Society

DOCUMENT TYPE: Journal English LANGUAGE:

Long acting somatostatin-14 (SST) analogs are used clin. to inhibit tumor growth and proliferation of various tumor types via binding to specific receptors (R). We have developed a 111In-/90Y-labeled SST analog, DOTA-(D).beta.Nall-lanreotide (DOTALAN), for tumor diagnosis and therapy. 111In-/90Y-DOTALAN bound with high affinity (dissocn. const., Kd, 1-12 nM) to a no. of primary human tumors (n = 31) such as intestinal adenocarcinoma (150-4000 fmol/mg protein) or breast cancer (250-9000 fmol/mg protein). 111In-/90Y-DOTALAN exhibited a similar high binding affinity (Kd, 1-15 nM) for the human breast cancer cell lines T47D and ZR75-1, the prostate cancer cell lines PC3 and DU145, the colonic adenocarcinoma cell line HT29, the pancreatic adenocarcinoma cell line PANC1, and the melanoma cell line 518A2. When expressed in COS7 cells, 111In-DOTALAN bound with high affinity to hsst2 (Kd, 4.3 nM), hsst3 (Kd, 5.1 nM), hsst4 (Kd, 3.8 nM), and hsst5 (Kd, 10 nM) and with lower affinity to hsst1 (Kd, .apprx.200 nM). The rank order of displacement of [1251] Tyr11-SST binding to hsst1 was: SST (IC50, 0.5 nM) .mchgt. DOTALAN (IC50, 154 nM) > lanreotide (LAN) .apprx. Tyr3-octreotide (TOCT) .apprx. DOTA-Tyr3-octreotide (DOTATOCT) .apprx. DOTA-vapreotide (DOTAVAP; IC50, >1000 nM); that to hsst2 was: DOTATOCT .apprx. TOCT .apprx. DOTALAN .apprx. SST .apprx. LAN .apprx. DOTAVAP (IC50, 1.4 nM); that to hsst3 was: SST (IC50, 1.2 nM) > DOTALAN = LAN (IC50, 15 nM) .apprx. TOCT (IC50, 20 nM) .apprx. DOTAVAP (IC50, 28 nM) > DOTATOCT (IC50, 73 nM); that to hsst4 was: SST (IC50, 1.8 nM) .apprx. DOTALAN (IC50, 2.5 nM) > LAN (IC50, 22 nM) .mchgt. DOTATOCT .apprx. DOTAVAP .apprx. TOCT (IC50, >500 nM); and that to hsst5 was: DOTALAN (IC50, 0.45 nM) > SST (IC50, 0.9 nM) > TOCT (IC50, 1.5 nM) > DOTAVAP (IC50, 5.4 nM) .mchgt. LAN (IC50, 21 nM) > DOTATOCT (IC50, 260 nM). In Sprague Dawley rats, 90Y-DOTALAN was rapidly cleared from the circulation and concd. in hsst-pos. tissues such as pancreas or pituitary. Taken together, our results indicate that 111In-/90Y-DOTALAN binds to a broad range of primary human tumors and tumor cell lines, probably via binding to hsst2.5. We conclude that this radiolabeled peptide can be used for hsst-mediated diagnosis (111In-DOTALAN) as well as systemic radiotherapy (90Y-DOTALAN) of human tumors.

204318-14-9 251553-64-7 ΤТ

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(DOTA-lanreotide in tumor diagnosis and therapy and receptor specificity therein)

213187-44-1 ΙT

RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (DOTA-lanreotide in tumor diagnosis and therapy and receptor specificity therein)

REFERENCE COUNT:

THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 20 OF 35 HCAPLUS COPYRIGHT 2002 ACS 1999:442438 HCAPLUS ACCESSION NUMBER:

34

DOCUMENT NUMBER:

131:239827

TITLE:

Radiometal-labelled macrocyclic chelator-derivatized somatostatin analogue with superb tumour-targeting properties and potential for receptor-mediated

internal radiotherapy

AUTHOR(S): Heppeler, A.; Froidevaux, S.; Macke, H. R.; Jermann,

E.; Behe, M.; Powell, P.; Hennig, M.

CORPORATE SOURCE: Institute of Nuclear Medicine, Div. of Radiological

Chemistry, University Hospital Basel, Basel, CH-4031,

Switz.

SOURCE: Chemistry--A European Journal (1999), 5(7), 1974-1981

CODEN: CEUJED; ISSN: 0947-6539

PUBLISHER: Wiley-VCH Verlag GmbH

DOCUMENT TYPE: Journal LANGUAGE: English

A monoreactive DOTA (1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid) prochelator (4,7,10-tricarboxymethyl-tert-Bu ester 1,4,7,10-tetraazacyclododecane-1-acetate) was synthesized which is useful in solid-phase and soln.-phase peptide synthesis; it was coupled to the somatostatin analog Tyr3-Lys5(BOC)-octreotide. Deprotection in one step afforded DOTAO-D-Phel-Tyr3-octreotide (DOTATOC) in .apprxeq.65% yield. This peptide, modified with a chelator, was complexed with the radiometals 67Ga3+, 111In3+ and 90Y3+ in high yields and with high specific activities. The three radiopeptides show high stability in human serum and high affinity to the somatostatin receptor: it is four to five times higher for 67Ga-DOTATOC compared to 90Y-DOTATOC and 111In-DOTATOC. The 67Ga-labeled compd. also shows significantly higher tumor and lower kidney uptake than the two congeners. 67Ga-DOTATOC was compared in patients with the com. available gold std. 111In-DTPA0-D-Phe1-octreotide. The new compd. delineates SRIF-receptor pos. tumors very favorably and shows distinctly lower uptake by the kidneys. Evidently, the differences in the coordination chem. of the metals causes the differences in the biol. behavior. Indeed, a crystallog. study of the Ga3+ and Y3+ complexes of the model peptide DOTA-D-PheNH2 showed differences in the geometry of the complexes. The gallium complex is hexacoordinated with pseudooctahedral cis geometry and a folded macrocyclic unit. The equatorial plane is formed by two transannular nitrogens of the cyclen ring and two oxygens of the corresponding carboxylate groups. The two axial positions are formed by the two remaining ring nitrogen atoms. The amide carboxy oxygen is not bound to the metal and one carboxylate group is free and most likely contributes to the favorable handling of the radiopeptide by the kidneys. In contrast, the structure of Y-DOTA-D-PheNH2 has eight-fold coordination, and includes the amide carboxy oxygen. The geometry is a compact and somewhat distorted square-antiprism with two almost perfect planes (N4 and 04) with a max. deviation of 0.025 A. The dihedral angle between the two planes is only 0.36.degree..

IT 204318-14-9P 244219-77-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(radiometal-labeled macrocyclic chelator-derivatized somatostatin analog with tumor-targeting properties)

REFERENCE COUNT:

THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 21 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:313313 HCAPLUS

DOCUMENT NUMBER: 131:127216

TITLE: Enzymatic Cleavage of Peptide-Linked Radiolabels from

Immunoconjugates

AUTHOR(S): Peterson, James J.; Meares, Claude F.

CORPORATE SOURCE: Department of Chemistry, University of California,

Davis, CA, 95616-5295, USA

SOURCE: Bioconjugate Chemistry (1999), 10(4), 553-557

CODEN: BCCHES; ISSN: 1043-1802 American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

PUBLISHER:

We have incorporated peptides selected by combinatorial library [Peterson, J. J., and Meares, C. F. (1998) Bioconjugate Chem. 9, 618-626] into peptide-linked radiolabeled immunoconjugates of the form DOTA-peptide-antibody. Decapeptide linkers -GFQGVQFAGF- and -GFGSVQFAGF-, selected for cleavage by human liver cathepsin B, were rapidly digested in vitro when compared to the simple model tetrapeptide motif of the prototype -GGGF- [Li, M., and Meares, C. F. (1993) Bioconjugate Chem. 4, 275-283]. Cleavage properties of these library-selected substrates for cathepsin B compared favorably with decapeptide linkers -GLVGGAGAGF- and -GGFLGLGAGF-, which incorporate two of the most labile extended cathepsin B substrates from the literature. The decapeptide linker -GFGSTFFAGF-, selected from the library for cleavage by human liver cathepsin D, was rapidly digested by cathepsin D while the others were not.

149206-88-2DP, 90Y-labeled immunoconjugates 234442-93-4DP, 90Y-labeled immunoconjugates 234442-94-5DP, 90Y-labeled immunoconjugates 234442-95-6DP, 90Y-labeled immunoconjugates 234442-96-7DP, 90Y-labeled immunoconjugates 234442-97-8DP, 90Y-labeled immunoconjugates

RL: BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC

(prepn. of 90Y-labeled DOTA-peptide-antibody conjugates and cleavage by cathepsin)

ΙT 221328-05-8

RL: RCT (Reactant); RACT (Reactant or reagent) (prepn. of 90Y-labeled DOTA-peptide-antibody conjugates and cleavage by cathepsin)

234442-92-3P ΤТ

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of 90Y-labeled DOTA-peptide-antibody conjugates and

cleavage by cathepsin)

THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 22 OF 35 HCAPLUS COPYRIGHT 2002 ACS 1999:20744 HCAPLUS ACCESSION NUMBER:

130:248789

DOCUMENT NUMBER:

Optimized conditions for chelation of yttrium-90-DOTA TITLE:

immunoconjugates

Kukis, David L.; DeNardo, Sally J.; DeNardo, Gerald AUTHOR(S):

L.; O'Donnell, Robert T.; Meares, Claude F.

Section of Radiodiagnosis and Therapy, Department of CORPORATE SOURCE:

Internal Medicine, University of California Davis

Medical Center, Sacramento, CA, USA

Journal of Nuclear Medicine (1998), 39(12), 2105-2110 SOURCE:

CODEN: JNMEAQ; ISSN: 0161-5505

Society of Nuclear Medicine, Inc. PUBLISHER:

DOCUMENT TYPE: Journal Page 1985 English LANGUAGE:

Radioimmunotherapy (RIT) with 90Y-labeled immunoconjugates has shown promise in clin. trials. The macrocyclic chelating agent 1,4,7,10-tetraazacyclododecane-N,N',N'',N'''-tetraacetic acid (DOTA) binds 90Y with extraordinary stability, minimizing the toxicity of 90Y-DOTA

immunoconjugates arising from loss of 90Y to bone. However, reported 90Y-DOTA immunoconjugate product yields have been typically only .ltoreq.50%. Improved yields are needed for RIT with 90Y-DOTA immunoconjugates to be practical. (S) 2-[p-(bromoacetamido)benzyl]-DOTA (BAD) was conjugated to the monoclonal antibody Lym-1 via 2-iminothiolane (2IT). The immunoconjugate product, 2IT-BAD-Lym-1, was labeled in excess yttrium in various buffers over a range of concns. and pH. Kinetic studies were performed in selected buffers to est. radiolabeling reaction times under prospective radiopharmacy labeling conditions. The effect of temp. on reaction kinetics was examd. Optimal radiolabeling conditions were identified and used in eight radiolabeling expts. with 2IT-BAD-Lym-1 and a second immunoconjugate, DOTA-peptide-chimeric L6, with 248-492 MBq (6.7-13.3 mCi) of 90Y. Ammonium acetate buffer (0.5 M) was assocd. with the highest uptake of yttrium. On the basis of kinetic data, the time required to chelate 94% of 90Y (four half-times) under prospective radiopharmacy labeling conditions in 0.5 M ammonium acetate was 17-148 min at pH 6.5, but it was only 1-10 min at pH 7.5. Raising the reaction temp. from 25.degree.C to 37.degree.C markedly increased the chelation rate. Optimal radiolabeling conditions were identified as: 30-min reaction time, 0.5 M ammonium acetate buffer, pH 7-7.5 and 37.degree.C. In eight labeling expts. under optimal conditions, a mean product yield (.+-. s.d.) of 91% .+-. 8% was achieved, comparable to iodination yields. The specific activity of final products was 74-130 MBq (2.0-3.5 mCi) of 90Y per mg of monoclonal antibody. The immunoreactivity of 90Y-labeled immunoconjugates was 100% .+-. 11%. The optimization of 90Y-DOTA chelation conditions represents an important advance in 90Y RIT because it facilitates the dependable and cost-effective prepn. of 90Y-DOTA pharmaceuticals.

149206-88-2DP, conjugate with monoclonal antibody ΤТ RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(optimized conditions for chelation of yttrium-90-DOTA

immunoconjugates)

REFERENCE COUNT:

THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 23 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1998:438091 HCAPLUS

DOCUMENT NUMBER:

129:257023

TITLE:

The somatostatin receptor-targeted radiotherapeutic

[90Y-DOTA-dPhe1, Tyr3] octreotide (90Y-SMT 487) eradicates experimental rat pancreatic CA 20948 tumors

Stolz, Barbara; Weckbecker, Gisbert; Smith-Jones, Peter M.; Albert, Rainer; Raulf, Friedrich; Bruns,

Christian

CORPORATE SOURCE:

Novartis Pharma AG, Basel, Switz.

SOURCE:

AUTHOR(S):

European Journal of Nuclear Medicine (1998), 25(7),

668-674

CODEN: EJNMD9; ISSN: 0340-6997

Springer-Verlag

DOCUMENT TYPE:

PUBLISHER:

Journal English

LANGUAGE:

Somatostatin receptor-expressing tumors are potential targets for therapy with radiolabeled somatostatin analogs. We have synthesized a no. of such analogs in the past and identified [DOTA-dPhe1, Tyr3]octreotide (SMT 487) as the most promising candidate mol. because of its advantageous properties in cellular and in vivo tumor models. In the current paper we describe the radiotherapeutic effect of yttrium-90 labeled SMT 487 in Lewis rats bearing the somatostatin receptor-pos. rat pancreatic tumor CA

SMT 487 binds with nanomolar affinity to both the human and the rat somatostatin receptor subtype 2 (sst2) (human sst2 IC50=0.9 nM, rat sst2 IC50=0.5 nM). In vivo, 90Y-SMT 487 distributed rapidly to the sst2 expressing CA 20948 rat pancreatic tumor, with a tumor-to-blood ratio of 49.15 at 24 h post injection. A single i.v. administration of 10 mCi/kg 90Y-SMT 487 resulted in a complete remission of the tumors in five out of seven CA 20948 tumor-bearing Lewis rats. No regrowth of the tumors occurred 8 mo post injection. Control animals that were treated with 30.mu.g/kg of unlabeled SMT 487 had to be sacrificed 10 days post injection due to excessive growth or necrotic areas on the tumor surface. Upon re-inoculation of tumor cells into those rats that had shown complete remission, the tumors disappeared after 3-4 wk of moderate growth without any further treatment. The present study shows for the first time the curative potential of 90Y-SMT 487-based radiotherapy for somatostatin receptor-expressing tumors. Clin. phase I studies with yttrium-labeled SMT 487 have started in Sept. 1997.

209277-09-8D, Y-90 complexes

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(somatostatin receptor-targeted radiotherapeutic 90Y-SMT 487 eradicates pancreatic tumors)

L11 ANSWER 24 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1998:348152 HCAPLUS

DOCUMENT NUMBER:

129:81945

TITLE:

Direct synthesis of [DOTA-DPhel]-octreotide and [DOTA-DPhe1, Tyr3]-octreotide (SMT487): two conjugates for systemic delivery of radiotherapeutical nuclides to somatostatin receptor positive tumors in man Albert, Rainer; Smith-Jones, Peter; Stolz, Barbara;

AUTHOR(S):

Simeon, Corinne; Knecht, Hellmut; Bruns, Christian;

Pless, Janos

CORPORATE SOURCE:

Novartis Pharma AG, Basel, CH-4002, Switz.

SOURCE:

Bioorganic & Medicinal Chemistry Letters (1998),

8(10), 1207-1210

Elsevier Science Ltd.

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

Journal English

Direct attachment of unprotected DOTA (1,4,7,10-tetraazacyclododecane-N', N'', N''', N''''-tetraacetic acid) to partially suitably protected octreotide or [Tyr3]-octreotide leads after deprotection to [DOTA-DPhe1]-octreotide and [DOTA-DPhe1, Tyr3]-octreotide. These DOTA-contg. somatostatin analogs, when labeled with a radiotherapeutic nuclide, are useful as antitumor agents. The partially protected peptides are accessible via solid phase peptide synthesis (SPPS) followed by selective cleavage under mild acidic conditions from the resin.

204318-14-9P 209277-09-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation).

(synthesis of DOTA-octreotide conjugates for systemic delivery of radiotherapeutical nuclides to somatostatin receptor pos. tumors)

L11 ANSWER 25 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1998:98351 HCAPLUS

DOCUMENT NUMBER:

128:172129

TITLE: Improved detection and therapy of lesions with

biotin-chelate conjugates

INVENTOR(S): Griffiths, Gary L.; Hansen, Hans J.; Karacay, Habibe PATENT ASSIGNEE(S):

Immunomedics, Inc., USA; Griffiths, Gary L.; Hansen,

Hans J.; Karacay, Habibe SOURCE: PCT Int. Appl., 38 pp.

CODEN: PIXXD2

Patent

DOCUMENT TYPE: LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 14

PATENT INFORMATION:

PA:	rent	NO.		KI	ND	DATE			A	PPLI	CATI	N NC	Э.	DATE			
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WO	9804	293		A	1	1998	0205		M	0 19	97-U	S132	85	1997	0731		
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		DK,	EE,	ES,	FI,	GB,	GE,	HU,	IL,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	ΝZ,	PL,	PT,
		RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	UA,	UG,	US,	UZ,
		VN,	YU,	ZW,	AM,	ΑZ,	BY,	KG,	KΖ,	MD,	RU,	ΤJ,	TM				
	RW:	GH,	KE,	LS,	MW,	SD,	SZ,	UG,	ZW,	AT,	BE,	CH,	DE,	DK,	ES,	FI,	FR,
		GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ΒJ,	CF,	CG,	CI,	CM,	GΑ,
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An improved method of detecting and/or treating lesions in a patient in AΒ which a pre-targeting approach is used wherein the total amt. of radionuclide delivered to a target cell, tissue, or pathogen is dramatically increased. In this method, the chelate conjugate may be purified by chromatog. after chelate formation, may contain multiple chelates or a blood transit-modifying linker or added within the chelate conjugate, or both; or a combination of these. The improved chelate conjugates can be used as detection of therapeutic agents to detect or treat the targeted cell, tissue, or pathogen. Biotin-D-Phe-D-Lys-DOTA was prepd. and complexed with gadolinium for MRI.

202932-51-2DP, complexes with radionuclides IT

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(detection and therapy of lesions with biotin-chelate conjugates)

L11 ANSWER 26 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1997:579696 HCAPLUS

DOCUMENT NUMBER:

127:228839

TITLE:

Pharmaceutical agents containing perfluoroalkylcontaining metal complexes and the use thereof in

tumor therapy and intervention al radiology

INVENTOR(S):

Platzek, Johannes; Niedballa, Ulrich; Raduchel, Bernd; Schlecker, Wolfgang; Weinmann, Hanns-Joachim; Frenzel,

Thomas

PATENT ASSIGNEE(S):

Schering A.-G., Germany

SOURCE:

PCT Int. Appl., 144 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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KIND DATE
     PATENT NO.
                                             APPLICATION NO. DATE
                       Al 19970828
                                             WO 1997-EP684 19970214
     WO 9730969
         W: AL, AM, AU, AZ, BB, BG, BR, BY, CA, CN, CZ, EE, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TM, TR, TT, UA, UG,
         RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
                      A1 19970828 DE 1996-19608278 19960223
     DE 19608278
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     AU 9717692
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     EP 882010
                              19981209
                                              EP 1997-903278
                        В1
                              20010502
     EP 882010
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, FI
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     JP 2000504736
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     ES 2158493
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     US 6180113
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     ZA 9701537
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19981022
     NO 9803875
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                                              NO 1998-3875
                                                                  19980821
                                           DE 1996-19608278 A 19960223
PRIORITY APPLN. INFO.:
                                            US 1996-12506P P 19960229
WO 1997-EP684 W 19970214
OTHER SOURCE(S):
                           MARPAT 127:228839
     The invention relates to pharmaceutical agents contg. perfluoro alkylated
     metal complexes RF-L-A and the use thereof in tumor therapy and
     interventional radiol., in which formula RF is a perfluorinated,
     straight-chain or branched C chain with the formula -CnF2nX (X = terminal
     F, Cl, Br, I or H atom and n=4-30), L is a binding group, and A is a metal complex or the salts thereof of org. and/or inorg. bases or amino
     acids or amino acid amides. Thus Gd/Dy/Y/Mn complexes of tetraazacyclododecane having amide pendants with perfluoroalkyl groups or
     polyaminopolycarboxylic acids with pendants contg. perfluoroalkyl groups
     were prepd.
     193528-92-6P
IT
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
         (for prepn. of rare earth/manganese fluoroalkyl-contg.
        polyaminopolycarboxylate/tetraazacyclododecane complexes for use as
        pharmaceutical agents in tumor therapy and interventional
        radiol.)
L11 ANSWER 27 OF 35 HCAPLUS COPYRIGHT 2002 ACS
                           1997:433657 HCAPLUS
ACCESSION NUMBER:
                           127:92211
DOCUMENT NUMBER:
                           Development of a Streptavidin-Anti-Carcinoembryonic
TITLE:
                           Antigen Antibody, Radiolabeled Biotin Pretargeting
                           Method for Radioimmunotherapy of Colorectal Cancer.
                           Reagent Development
                           Karacay, Habibe; Sharkey, Robert M.; Govindan,
AUTHOR(S):
                           Serengulam V.; McBride, William J.; Goldenberg, David
                           M.; Hansen, Hans J.; Griffiths, Gary L.
                           Immunomedics Inc., Morris Plains, NJ, 07950, USA
CORPORATE SOURCE:
                           Bioconjugate Chemistry (1997), 8(4), 585-594
SOURCE:
                           CODEN: BCCHES; ISSN: 1043-1802
PUBLISHER:
                           American Chemical Society
DOCUMENT TYPE:
                           Journal
```

English

LANGUAGE:

```
AΒ
     With "pretargeting", radioisotope delivery to tumor is decoupled from the
     long antibody localization process, and this can increase tumor: blood
     ratios dramatically. Several reagents were prepd. for each step of a
     "two-step" pretargeting method, and their properties were investigated.
     For pretargeting tumor, streptavidin-monoclonal antibody (StAv-mab) conjugates were prepd. by crosslinking sulfo-SMCC-derivatized streptavidin
     to a free thiol (SH) group on MN-14 [a high-affinity anti-carcinoembryonic
     antigen (CEA) mab]. Thiolated mabs were generated either by reaction of
     2-iminothiolane (2-IT) with mab lysine residues or by redn. of mab
     disulfide bonds with (2-mercaptoethyl)amine (MEA). Both procedures gave
     protein-protein conjugates isolated in relatively low yields (20-25%)
     after preparative size-exclusion (SE) chromatog, purifn, with conservative
     peak collection. Both StAv-MN-14 conjugates retained their ability to
     bind to CEA, to an anti-idiotypic antibody to MN-14 (WI2), and to biotin,
     as demonstrated by SE-HPLC. Two clearing agents, WI2 mab and a
     biotin-human serum albumin (biotin-HSA) conjugate, were developed to
     remove excess circulating StAv-MN-14 conjugates in animals. Both clearing
     proteins were also modified with galactose residues, introduced using an
     activated thioimidate deriv., to produce clearing agents which would clear
     rapidly and clear primary mab rapidly. At least 14 galactose residues on
     WI2 were required to reduce blood levels to 5.9 .+-. 0.7% ID/g in 1 h.
     Faster blood clearance (0.7 .+-. 0.2% ID/g) was obsd. in 1 h using 44
     galactose units per WI2. For the delivery of radioisotope to tumor,
     several biotinylated conjugates consisting of biotin, a linker, and a
     chelate were prepd. Conjugates showed good in vitro and in vivo stability
     when D-amino acid peptides were used as linkers. Biotin-peptide-DOTA-
     indium-111 had a slightly longer blood circulation time (0.09 .+-. 0.02%
     ID/g in 1 h) than biotin-peptide-DTPA-indium-111 (0.05 .+-. 0.03% ID/g in
     1 h) in nude mice. A longer circulation time with the neutral DOTA
     complex might allow higher tumor uptake.
    192221-17-3P 192221-18-4P 192221-19-5P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (intermediate; streptavidin-anticarcinoembryonic antigen antibody,
        radiolabeled biotin pretargeting for radioimmunotherapy of colorectal
        cancer)
     192221-17-3DP, In-111 complexes 192221-18-4DP, In-111
     complexes 192221-19-5DP, In-111 complexes
     RL: BPR (Biological process); BSU (Biological study, unclassified); SPN
     (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study);
     PREP (Preparation); PROC (Process); USES (Uses)
        (streptavidin-anticarcinoembryonic antigen antibody, radiolabeled
        biotin pretargeting for radioimmunotherapy of colorectal cancer
L11 ANSWER 28 OF 35 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER:
                         1997:325414 HCAPLUS
DOCUMENT NUMBER:
                         126:340528
TITLE:
                         A study on pre-labeling method of monoclonal antibody
                         Lym-1 with yttrium-90
AUTHOR(S):
                         Zhong, Gaoren; Zhu, Jianhua; Zhu, Tong
CORPORATE SOURCE:
                         Shanghai Medical University, Shanghai, 200032, Peop.
                         Rep. China
SOURCE:
                         Hejishu (1996), 19(7), 440-444
                         CODEN: NUTEDL; ISSN: 0253-3219
PUBLISHER:
                         Kexue
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A pre-labeling method of monoclonal antibody Lym-1 with 90Y using a new

Journal

Chinese

DOCUMENT TYPE:

LANGUAGE:

bifunctional chelating agent (DOTA-peptide) was studied. 90Y was first labeled to the bifunctional chelating agent and then conjugated to the monoclonal antibody. The radioactivity yield was 30%. The radiochem. purity of 90Y-labeled Lym-1 was detd. to be over 95% by gel filtration HPLC and silica gel TLC. The immunoreactivity of the final product was found to be greater than 100% relative to 125I-Lym-1 (as a std.) by in vitro cell binding assay.

IT 149206-88-2DP, conjugates with monoclonal antibodies and
yttrium-90

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PNU (Preparation, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation)

(prelabeling method of monoclonal antibody Lym-1 with yttrium-90 using DOTA-peptide as bifunctional chelating agent)

L11 ANSWER 29 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1996:377062 HCAPLUS

DOCUMENT NUMBER:

125:59133

TITLE:

Preparation of DOTA-containing peptides and radionucleotide complexes as antitumor agents

PATENT ASSIGNEE(S):

Sandoz A.-G., Switz.

SOURCE:

GΙ

Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DATE
JP 08081498 JP 3054346	A2 B2	19960326 20000619	JP 1995-227906 19950905
FI 9504147	A		FI 1995-4147 19950904
NO 9503457			NO 1995-3457 19950904
AU 9530414	A1	19960321	AU 1995-30414 19950904
AU 703057	В2	19990311	
EP 714911	A2	19960605	EP 1995-810545 19950904
	A 3	19960821	
EP 714911		20010307	
			FR, GB, GR, IE, IT, LI, LU, NL, PT, SE
HU 72895	A2		HU 1995-2577 19950904
HU 218284		20000728	
IL 115154	A1	20000813	IL 1995-115154 19950904
CZ 287012		20000816	CZ 1995-2263 19950904
RU 2156774	C2		RU 1995-114740 19950904
AT 199561		20010315	AT 1995~810545 19950904
ES 2157309			ES 1995-810545 19950904
PL 182434			PL 1995-310274 19950904
CA 2157530		19960307	CA 1995-2157530 19950905
CN 1127259		19960724	CN 1995-115610 19950905
BR 9503936	A		BR 1995-3936 19950905
ZA 9507475	A	19970306	ZA 1995-7475 19950906
PRIORITY APPLN. I	NFO.:		GB 1994-17873 A 19940906
CT			

The title N-[4,7,8-tris(carboxymethyl)-4,7,10-tetraazacyclododecan-1-AB methylcarbonyl]somatostatin peptides (I; M = cation; A = Phe, Tyr) or their complexes with 90Y or 161Tb are prepd. A pharmaceutical compn. for treating somatostatin pos. tumors or metastasized cancers comprises .gtoreq.1 of said radionucleotide complexes or pharmaceutically acceptable salts thereof and optionally a stabilizer selected from serum albumin, ascorbic acid, retinol, gentisic acid or its deriv., and an amino acid soln. Thus, 6 g DOTA.2H2O was dissolved in 50 mL H2O, dild. with 60 mL DMF, treated with 1 g N-hydroxysuccinimide, 2.7 g DCC, and [Tyr3, Lys5 (Boc)] octreotide, and stirred at room temp. for 72 h to give, after deprotection with CF3CO2H, the title peptide I acetic acid salt (M =H, A = Phe). To a soln. of the latter compd. (50 .mu.M, 20 .mu.L, 0.15 M NH4OAc, 0.3 BSA, pH 4.5) was added a soln. of 90Y (1.2 mCi, 0.04 M HCl, 20 .mu.L) and the soln. was incubated at 100.degree. for 15 h and dild. with a 4 mM soln. of I (M = H, A = Phe) (pH 4.5) to give a soln. of I (M = H, A = Phe)-90Y chelate of >99.5% radiochem. purity., which was stable for 7 days.

IT 177943-88-3P 177943-89-4P 177943-91-8P 177943-92-9P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of DOTA-contg. peptides and radionucleotide complexes as antitumor agents for treating somatostatin pos. tumor and metastasized tumors)

L11 ANSWER 30 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1996:367647 HCAPLUS

DOCUMENT NUMBER:

125:29269

TITLE:

Chitosan oligomer derivatives labeled with Gd-DTPA for

Ι

use as magnetic resonance contrast agents

INVENTOR(S):

Hashiguchi, Yuji; Sugino, Hideki; Kamimura, Kenji;

Seri, Shigemi

PATENT ASSIGNEE(S):

Nihon Medi-Physics Co., Ltd., Japan

SOURCE:

Eur. Pat. Appl., 11 pp.

DOCUMENT TYPE:

CODEN: EPXXDW

LANGUAGE:

Patent

FAMILY ACC. NUM. COUNT:

English

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

EP 707857 A1 19960424 EP 1995-116485 19951019

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE

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19951017
    JP 08208525
                    A2
                         19960813
                                       JP 1995-293463
    JP 3170192
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    CA 2160819
                                       CA 1995-2160819 19951018
                    AA 19960422
    FI 9504967
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                    A
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                                       NO 1995-4183
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    NO 9504183
                         19960502
    AU 9534362
                    A1
                                       AU 1995-34362
                                                       19951019
    AU 688119
                     B2 19980305
    NO 9802233
                     А
                         19960422
                                       NO 1998-2233
                                                       19980515
                                     JP 1994-282800 A 19941021
PRIORITY APPLN. INFO.:
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AB A diagnostic imaging agent is disclosed which comprises a compd. in which .gtoreq.1 bifunctional ligand is chem. bonded to an amino group of amino oligosaccharide having mol. wt. 500-2000 and having a redn.-treated reducing end of a sugar chain, or to an aldehyde group of a dialdehyde-oligosaccharide, .gtoreq.1 constituent monosaccharide of which is oxidn.-cleaved, having mol. wt. 500-2000 and having a redn.-treated reducing end of a sugar chain, and the ligand being coordinated with .gtoreq.1 metal ion selected from the group consisting of metal ions having the at. no. of 21-29, 31, 32, 37-39, 42-44, 49 and 56-83. Prepn. of e.g. a reduced chitosan pentamer conjugate with a gadolinium-DTPA complex is described.; the compd. was used in imaging with a rat having hepatocyte cancer.

L11 ANSWER 31 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1996:254285 HCAPLUS

DOCUMENT NUMBER:

124:311363

TITLE:

Hydrophilic polymer and radioactive metal complexes as

locally administered radio-therapeutic agents for treatment of cancer and inflammatory diseases

INVENTOR(S):

Seki, Ikuya; Sato, Toku; Seri, Shigemi; Washino,

Hiroaki

PATENT ASSIGNEE(S):

Nihon Mediphysics Co Ltd, Japan Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

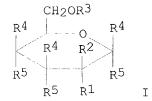
SOURCE: -

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08012597	A2	19960116	JP 1993-290080	19931026



AB Biodegradable hydrophilic polymers (polysaccharides and their derivs. contg. 1-4 hydrophilic monomer I, with av. mol. wt. 1 x 103-1 x 106; R1, R2 = H, amino, or hydroxy group; R3 = H, glycol, or carboxymethyl group; R4, R5 = H or hydroxy group) and complex with 1 or >1 radioactive metals are claimed as locally administered radio-therapeutic agents for treatment of cancer and inflammatory diseases. Thus, I were prepd. and their pharmacokinetics and antitumor and antiinflammatory effects were studied in mice and rats and discussed with their clin. effectiveness.

IT 175892-38-3DP, complex with indium-111
RL: BPR (Biological process); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC
 (Process); USES (Uses)

(hydrophilic polymer and radioactive metal complexes as locally administered radio-therapeutic agents for treatment of **cancer** and inflammatory diseases)

IT 149979-17-9, DO 3MA

RL: RCT (Reactant)

(hydrophilic polymer and radioactive metal complexes as locally administered radio-therapeutic agents for treatment of **cancer** and inflammatory diseases)

IT 175892-38-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (hydrophilic polymer and radioactive metal complexes as locally administered radio-therapeutic agents for treatment of cancer and inflammatory diseases)

L11 ANSWER 32 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1995:616058 HCAPLUS

DOCUMENT NUMBER:

CORPORATE SOURCE:

123:137600

TITLE:

Pharmacokinetics of chimeric L6 conjugated to indium-111- and yttrium-90-DOTA-peptide in

tumor-bearing mice

AUTHOR(S):

DeNardo, Sally J.; Zhong, Gao-Ren; Salako, Qansy; Li,

Min; DeNardo, Gerald L.; Meares, Claude F. Department Internal Medicine, University of

California, Davis, CA, USA

SOURCE:

J. Nucl. Med. (1995), 36(5), 829-36

CODEN: JNMEAQ; ISSN: 0161-5505

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB A bifunctional chelating agent, DOTA-Gly3-L-(p-isothiocyanato)phenylalanine amide (DOTA-peptide-NCS), was studied in nude mice bearing
human breast cancer xenographs (HBT 3477) to det. its potential for
radioimmunoconjugate therapy. Indium-111 and yttrium-90 were attached to
an anti-adenocarcinoma chimeric L6 (ChL6) monoclonal antibody (MAb) after
pre-chelation to the DOTA-peptide-NCS and the desired neutral
radiochelates were obtained by purifn. The unique characteristic of the
DOTA-peptide-NCS to form neutral complexes with trivalent metals was

utilized to sep. the resulting 111In and 90Y radiochelates from excess chelating agent and other anionic byproducts resulting from metal impurities. The purified radiochelates were then conjugated to ChL6. The pharmacokinetics of 111In- and 90Y-DOTA-peptide-ChL6 were obtained for 5 days after injection in nude mice bearing HBT 3477 xenographs. The results were compared with the pharmacokinetics of 125I-ChL6 obtained in the same mouse model. The whole-body clearance of 125I-ChL6, 90Y- and 111In-DOTA-peptide-ChL6 was monoexponential with biol. half-times of 92, 104 and 160 h, resp. Blood clearances of the three radiopharmaceuticals were biphasic. The radiometal immunoconjugates had greater tumor uptake and slower clearances. Indium-111- and 90Y-DOTA-peptide-ChL6 can be produced at high specific activity with fewer than one chelate per MAb by using a pre-labeling method that permits radiochelate purifn. by charge selection. Studies in mouse xenografts indicate that tumor uptake is enhanced and a favorable therapeutic index is achieved using these agents. 149206-88-2D, complexes with radionuclides and chimeric L6

IT 149206-88-2D, complexes with radionuclides and chimeric L6 monoclonal antibody

RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(pharmacokinetics of chimeric L6 conjugated to indium-111-and yttrium-90-DOTA-peptide in tumor-bearing mice)

L11 ANSWER 33 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1994:200413 HCAPLUS

DOCUMENT NUMBER: 120:200413

TITLE: Labeling Monoclonal Antibodies with 90Yttrium- and

111Indium-DOTA Chelates: A Simple and Efficient Method

AUTHOR(S): Li, Min; Meares, Claude F.; Zhong, Gao-Ren; Miers,

Laird; Xiong, Cheng-Yi; DeNardo, Sally J.

CORPORATE SOURCE: Department of Chemistry, University of California,

Davis, CA, 95616, USA

Bioconjugate Chem. (1994), 5(2), 101-4

CODEN: BCCHES; ISSN: 1043-1802
DOCUMENT TYPE: Journal

LANGUAGE: English

SOURCE:

AB Yttrium-90 and indium-111 have been attached to a monoclonal antibody with a bifunctional chelating agent (DOTA-peptide). Using the unique features of this DOTA-peptide and its complexes with trivalent yttrium and indium, the bifunctional chelating agent was prelabeled with either radiometal and then conjugated to chimeric monoclonal antibody L6. Both radiolabeling procedures and yield are suitable for the practical prepn. of radiopharmaceuticals. Biodistribution studies in tumor-bearing mice showed that, e.g., on day 3 after i.v. injection of a 90Y immunoconjugate, liver uptake was 5.4 .+-. 1.5% ID/g, bone uptake 2.0 .+-. 0.5% ID/g, and tumor uptake 18.0 .+-. 8.0% ID/g.

L11 ANSWER 34 OF 35 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1993:620702 HCAPLUS

DOCUMENT NUMBER: 119:220702

TITLE: Dendrimeric polychelants as imaging agents

INVENTOR(S): Watson, Alan D.

PATENT ASSIGNEE(S): Cockbain, Jilian Roderick Michaelson, UK; Nycomed

Salutar, Inc.

SOURCE: PCT Int. Appl., 57 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

KIND DATE PATENT NO. APPLICATION NO. DATE ~~~~~~ -----A1 19930415 WO 1992-EP2308 19921006 WO 9306868 W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, PL, RO, RU, SD, US RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG AU 9226757 A1 19930503 AU 1992-26757 19921006 AU 671601 В2 19960905 EP 607222 19940727 A1 EP 1992-920822 19921006 EP 607222 В1 19981223 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, SE JP 07503031 T2 19950330 JP 1992-506624 19921006 AT 174800 AT 1992-920822 19921006 Ε 19990115 PRIORITY APPLN. INFO.: US 1991-772349 19911007 WO 1992-EP2308 19921006

Polyvalent chelating agents, comprising multiple macrocyclic chelating moieties conjugated to a .ltoreq.5th-generation dendrimer backbone, and their metal chelates are useful in diagnostic imaging and radiotherapy. To produce a site-specific agent, .gtoreq.1 of the chelating agent-carrying backbone mols. may be conjugated to a site-directed mol., e.g. a protein. Thus, Me acrylate reacted with NH3-MeOH to form N(CH2CH2CO2Me)3, which combined with H2NCH2CH2NH2 to form a 1st-generation polyaminoamido starburst dendrimer; further generations were produced by alternate reaction of the product with Me acrylate and H2NCH2CH2NH2. A 2nd-generation dendrimer was coupled to 12 equiv. of DOTA carboxycarbonic anhydride, complexed with Gd, and conjugated via succinimidyl 4-(N-maleimidomethyl)cyclohexane-1-carboxylate to 2-iminothiolaneactivated antibody L6.

150467-20-2D, conjugates with starburst dendritic polymers, metal complexes RL: BIOL (Biological study) (for diagnostic imaging and radiotherapy)

L11 ANSWER 35 OF 35 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1993:490207 HCAPLUS

DOCUMENT NUMBER:

119:90207

TITLE:

Synthesis, metal chelate stability studies, and enzyme digestion of a peptide-linked DOTA derivative and its

corresponding radiolabeled immunoconjugates

AUTHOR(S):

Li, Min; Meares, Claude F.

CORPORATE SOURCE:

Dep. Chem., Univ. California, Davis, CA, 95616-0935,

SOURCE:

Bioconjugate Chem. (1993), 4(4), 275-83

CODEN: BCCHES; ISSN: 1043-1802

DOCUMENT TYPE:

Journal

LANGUAGE:

English

By directly coupling a tetrapeptide to DOTA through an amide bond, a novel DOTA deriv., DOTA-glycylglycylglycyl-L-p-nitrophenylalanine amide, was synthesized. This new precursor bifunctional chelating agent was $\verb|converted| to DOTA-glycylglycyl-L-p-isothiocyana tophenylalanine and \\$ conjugated to monoclonal antibody Lym-1. Serum stability studies show that the radiolabeled conjugates are kinetically inert under physiol.

conditions. The rates of loss of radiometals in human serum are 0.1% per day for In3+, 0.02% per day for Y3, and 0.3% per day for Cu2+-labeled immunoconjugates. In the presence of the liver enzyme cathepsin B, an in vitro digestion of 114mIn-labeled conjugate yields a small fragment contg. 114mIn. Characterization of the cleavage products shows that this liver enzyme hydrolyzes the peptide linkage before the phenylalanine residue, freeing the In-DOTA-triglycine complex from the conjugate. However, the liver enzyme cathepsin D does not cleave the linkage over the span of 7 days.

IT 149206-87-1DP, radiometal-monoclonal antibody conjugates
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and stability and enzyme digestion of)

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=> fil reg FILE 'REGISTRY' ENTERED AT 19:29:24 ON 19 JUL 2002 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2002 American Chemical Society (ACS)

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Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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68
         RN
              209277-09-8 REGISTRY
69
         ŔN
70
              204318-14-9 REGISTRY
         RN
71
         RN
              202932-51-2 REGISTRY
              193528-92-6 REGISTRY
72
         RN
             192221-19-5 REGISTRY
73
         RN
74
              192221-18-4 REGISTRY
         RN
75
              192221-17-3 REGISTRY
         RN
76
         RN
              177943-92-9 REGISTRY
              177943-91-8 REGISTRY
77
         RN
78
              177943-89-4 REGISTRY
         RN
79
              177943-88-3 REGISTRY
         RN
80
              175892-38-3 REGISTRY
         RN
81
         RN
              150467-20-2 REGISTRY
82
         RN 149979-17-9 REGISTRY
83
         RN 149206-88-2 REGISTRY
              149206-87-1 REGISTRY
84
         RN
```

=>

=> d ide can 112 1 3 9 13 19 20 21 22 23 26 27 43 54 55 59 60 61 67 68 69 70 71 72 73 76 80 81 82 84

L12 ANSWER 1 OF 84 REGISTRY COPYRIGHT 2002 ACS

RN 436142-25-5 REGISTRY

CN INDEX NAME NOT YET ASSIGNED

MF C86 H114 N20 O22 S2

CI IDS

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

PAGE 2-A

PAGE 2-B

$$\begin{array}{c|c} & \text{O} \\ & || \\ & \text{O} \\ & \text{C-NH}_2 \\ || \\ & \text{C-NH-CH-CH}_2 - \text{CH}_2 - \text{SMe} \\ || \\ & \text{-CH-Bu-i} \\ & \text{N} \\ & \text{-CH}_2 - \text{-} \\ & \text{N} \end{array}$$

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

1: 137:33520 REFERENCE

L12 ANSWER 3 OF 84 REGISTRY COPYRIGHT 2002 ACS RN 428817-81-6 REGISTRY

L-Ascorbic acid, 6-deoxy-6-[[[trans-4-[[[[[[4,7,10-tris(carboxymethyl)-CN 1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]acetyl]amino]methyl]cyclohex yl]carbonyl]amino]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

C32 H51 N7 O14 MF

SR

STN Files: CA, CAPLUS LC

Absolute stereochemistry.

PAGE 1-B

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:406944

L12 ANSWER 9 OF 84 REGISTRY COPYRIGHT 2002 ACS

RN **422512-81-0** REGISTRY

CN L-Methioninamide, N2-[1-oxo-8-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]octyl]-L-glutaminyl-L-tryptophyl-L-alanyl-L-valylglycyl-L-histidyl-L-leucyl- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C67 H106 N18 O17 S

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

PAGE 1-B

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

Russel 09_783248

REFERENCE 1: 136:365879

L12 ANSWER 13 OF 84 REGISTRY COPYRIGHT 2002 ACS

RN 415697-94-8 REGISTRY

L-Phenylalanine, N2-[1-oxo-6-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-CN tetraazacyclododec-1-yl]acetyl]amino]hexyl]-L-asparaginyl-L-seryl-L-seryl-L-asparaginyl-L-tyrosyl-L-cysteinyl-L-cysteinyl-L-.alpha.-glutamyl-Lleucyl-L-cysteinyl-L-cysteinyl-L-asparaginyl-L-prolyl-L-alanyl-L-cysteinyl-L-threonylglycyl-L-cysteinyl-, cyclic (6.fwdarw.11), (7.fwdarw.15), (10.fwdarw.18)-tris(disulfide) (9CI) (CA INDEX NAME)

PROTEIN SEQUENCE; STEREOSEARCH C101 H149 N27 O37 S6

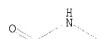
MF

SR

CA, CAPLUS, TOXCENTER LCSTN Files:

Absolute stereochemistry.

PAGE 1-B



PAGE 2-C

Page 41

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:321356

L12 ANSWER 19 OF 84 REGISTRY COPYRIGHT 2002 ACS

RN 405263-92-5 REGISTRY

CN L-Cysteinamide, N-[[4,10-bis(carboxymethyl)-7-(1,3-dicarboxypropyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]-D-phenylalanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic (2.fwdarw.7)-disulfide (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C68 H96 N14 O20 S2

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

PAGE 2-A

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 2 REFERENCES IN FILE CA (1967 TO DATE)
- 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 137:2480

REFERENCE 2: 136:272268

L12 ANSWER 20 OF 84 REGISTRY COPYRIGHT 2002 ACS

RN 400708-43-2 REGISTRY

CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[(5S)-6-[4-

[(heptadecafluorooctyl)sulfonyl]-1-piperazinyl]-5-[[(.alpha.-D-mannopyranosyloxy)acetyl]amino]-6-oxohexyl]amino]-2-oxoethyl]-, tris(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C54 H83 F17 N8 O17 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

OBu-t

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:209641

REFERENCE 2: 136:209640

Russel 09 783248

L12 ANSWER 21 OF 84 REGISTRY COPYRIGHT 2002 ACS

RN 387389-45-9 REGISTRY

CN L-Cysteine, N-[[4-(carboxymethoxy)phenyl][4,7,10-tris(carboxymethyl)1,4,7,10-tetraazacyclododec-1-yl]acetyl]-L-alanylglycyl-L-cysteinyl-N6[(1,1-dimethylethoxy)carbonyl]-L-lysyl-L-asparaginyl-L-phenylalanyl-Lphenylalanyl-L-tryptophyl-N6-[(1,1-dimethylethoxy)carbonyl]-L-lysyl-Lthreonyl-L-phenylalanyl-L-threonyl-L-seryl-, cyclic (3.fwdarw.14)disulfide, sodium salt (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C116 H148 N22 O33 S2 . x Na

SR CA

LC STN Files: CA, CAPLUS

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PAGE 1-B

PAGE 2-A

$$(CH2)4 - NH - C - O - CH2 - Ph$$
R2

PAGE 3-A

•x Na

- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:102654

- L12 ANSWER 22 OF 84 REGISTRY COPYRIGHT 2002 ACS
- RN **374804-69-0** REGISTRY
- CN L-Arginine, N-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]-L-cysteinylglycyl-L-prolyl-L-leucylglycyl-L-leucyl-L-alanyl- (9CI) (CA INDEX NAME)
- FS PROTEIN SEQUENCE; STEREOSEARCH
- MF C55 H96 N16 O17 S
- SR CA
- LC STN Files: CA, CAPLUS

Absolute stereochemistry.

$$H_{2N}$$
 H_{NH}
 $(CH_{2})_{3}$
 S
 H
 $i-Bu$
 S

PAGE 1-B

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:11092

ANSWER 23 OF 84 REGISTRY COPYRIGHT 2002 ACS L12

RN 355149-97-2 REGISTRY

1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[(1R)-2-[[[4-CN [[[[(6S,7R,10S)-6-[(hydroxyamino)carbonyl]-7-(2-methylpropyl)-8-oxo-2-oxa-9-azabicyclo[10.2.2]hexadeca-12,14,15-trien-10yl]carbonyl]amino]methyl]phenyl]methyl]amino]-2-oxo-1-(sulfomethyl)ethyl]amino]-2-oxoethyl]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

C47 H69 N9 O16 S MF

SR CA LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:180952

REFERENCE 2: 135:180950

L12 ANSWER 26 OF 84 REGISTRY COPYRIGHT 2002 ACS

RN **294637-28-8** REGISTRY

CN D-Lysinamide, N-[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]-D-phenylalanyl-D-phenylalanyl-N6-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C50 H73 N11 O12 S

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:249059

L12 ANSWER 27 OF 84 REGISTRY COPYRIGHT 2002 ACS

RN **277316-68-4** REGISTRY

CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[(4S)-4-[4-[[[bis(phosphonomethyl)amino]acetyl]amino]butyl]-24-[4-[[(1S)-1-carboxy-2-[[1,4-dihydro-7-[(1H-imidazol-2-ylamino)methyl]-1-methyl-4-oxo-3-quinolinyl]carbonyl]amino]ethyl]amino]sulfonyl]-3,5-dimethylphenoxy]-2,5,21-trioxo-10,13,16-trioxa-3,6,20-triazatetracos-1-yl]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C66 H103 N15 O26 P2 S

SR CA

STN Files: CA, CAPLUS, TOXCENTER LC

Absolute stereochemistry.

PAGE 1-A

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PAGE 1-C

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE) 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:70082

REFERENCE 2: 133:59099

L12 ANSWER 43 OF 84 REGISTRY COPYRIGHT 2002 ACS

RN **277315-80-7** REGISTRY

CN L-Alaninamide, N-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]-L-glutamoylbis[N-[3-[3-[[(2S)-2-carboxy-2-[[(2,4,6-trimethylphenyl)sulfonyl]amino]ethyl]amino]carbonyl]-7-[(1H-imidazol-2-ylamino)methyl]-4-oxo-1(4H)-quinolinyl]propyl]-3-sulfo-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C85 H111 N21 O29 S4 . 2 C2 H F3 O2

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

CM 1

CRN 277315-79-4

CMF C85 H111 N21 O29 S4

Absolute stereochemistry.

PAGE 1-B

PAGE 2-A

CM 2

CRN 76-05-1 CMF C2 H F3 O2

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:70082

2: 133:59099 REFERENCE

L12 ANSWER 54 OF 84 REGISTRY COPYRIGHT 2002 ACS RN 251553-64-7 REGISTRY

L-Tryptophanamide, N-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]-D-phenylalanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl-L-lysyl-L-valyl-L-cysteinyl-, cyclic (2.fwdarw.7)-disulfide CN (CA INDEX NAME) (9CI)

PROTEIN SEQUENCE; STEREOSEARCH FS

C73 H96 N16 O16 S2 MF

SR CA

CA, CAPLUS, TOXCENTER LC STN Files:

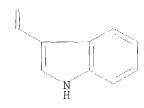
Absolute stereochemistry.

PAGE 1-A CO2H HO₂C Ph. N_{\sim} CO_2H 0

HO

PAGE 1-B

PAGE 2-B



2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:234514

REFERENCE 2: 132:9203

L12 ANSWER 55 OF 84 REGISTRY COPYRIGHT 2002 ACS

RN **250612-82-9** REGISTRY

CN Cyclo(L-arginylglycyl-L-.alpha.-aspartyl-D-phenylalanyl-L-lysyl), 5,5'-[N-[[4,7,10-tris[2-(1,1-dimethylethoxy)-2-oxoethyl]-1,4,7,10-tetraazacyclododec-1-yl]acetyl]-L-glutamoyl]bis-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C87 H137 N23 O23 . 2 C2 H F3 O2

SR CF

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CRN 250612-81-8 CMF C87 H137 N23 O23

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PAGE 2-A

: СH2--- СО2Н

CM 2

CRN 76-05-1 CMF C2 H F3 O2

F C CO₂H

3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:123597

REFERENCE 2: 136:70083

REFERENCE 3: 131:351678

L12 ANSWER 59 OF 84 REGISTRY COPYRIGHT 2002 ACS

RN **245758-39-8** REGISTRY

CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[2-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]methylamino]ethyl]methylamino]-2-oxoethyl]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C30 H52 N8 O9 S

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

PAGE 1-B

__CO2H

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:249059

REFERENCE 2: 131:276952

L12 ANSWER 60 OF 84 REGISTRY COPYRIGHT 2002 ACS

RN **244219-77-0** REGISTRY

CN L-Cysteinamide, N-[[4,7,10-tris[2-(1,1-dimethylethoxy)-2-oxoethyl]1,4,7,10-tetraazacyclododec-1-yl]acetyl]-D-phenylalanyl-L-cysteinyl-Ltyrosyl-D-tryptophyl-N6-[(1,1-dimethylethoxy)carbonyl]-L-lysyl-L-threonylN-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic
(2.fwdarw.7)-disulfide (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C82 H124 N14 O20 S2

SR CZ

LC STN Files: CA, CAPLUS

PAGE 2-A

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:239827

L12 ANSWER 61 OF 84 REGISTRY COPYRIGHT 2002 ACS

RN 234442-97-8 REGISTRY

CN L-Phenylalaninamide, N-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]glycyl-L-phenylalanyl-L-glutaminylglycyl-L-valyl-L-glutaminyl-L-phenylalanyl-L-alanylglycyl-4-isothiocyanato- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C68 H94 N18 O19 S

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

PAGE 1-C

___CO2H

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

1: 131:127216 REFERENCE

L12 ANSWER 67 OF 84 REGISTRY COPYRIGHT 2002 ACS

221328-05-8 REGISTRY RN

L-Phenylalaninamide, N-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]glycylglycyl-L-phenylalanyl-L-leucylglycyl-L-leucylglycyl-4-nitro- (9CI) (CA INDEX NAME) CN

PROTEIN SEQUENCE; STEREOSEARCH FS

C59 H88 N16 O19 MF

SR CA

STN Files: CA, CAPLUS LC

Absolute stereochemistry.

PAGE 1-B

PAGE 1-C

__NO2

2 REFERENCES IN FILE CA (1967 TO DATE) 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

1: 131:127216 REFERENCE

130:237860 REFERENCE 2:

L12 ANSWER 68 OF 84 REGISTRY COPYRIGHT 2002 ACS RN 213187-44-1 REGISTRY

L-Threoninamide, 3-(2-naphthalenyl)-N-[[4,7,10-tris(carboxymethyl)-CN 1,4,7,10-tetraazacyclododec-1-yl]acetyl]-D-alanyl-L-cysteinyl-L-tyrosyl-Dtryptophyl-L-lysyl-L-valyl-L-cysteinyl-, cyclic (2.fwdarw.7)-disulfide (CA INDEX NAME) (9CI)

PROTEIN SEQUENCE; STEREOSEARCH FS

C70 H95 N15 O17 S2 MF

SR

CA, CAPLUS, TOXCENTER LC STN Files:

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3 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:234514

REFERENCE 2: 132:9203

REFERENCE 3: 129:245497

L12 ANSWER 69 OF 84 REGISTRY COPYRIGHT 2002 ACS

RN 209277-09-8 REGISTRY

CN L-Cysteinamide, N-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]-D-phenylalanyl-L-cysteinyl-L-phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic (2.fwdarw.7)-disulfide (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C65 H92 N14 O17 S2

CI COM

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

7 REFERENCES IN FILE CA (1967 TO DATE)

Russel 09 783248

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

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7 REFERENCES IN FILE CAPLUS (1967 TO DATE)
           1: 133:234514
REFERENCE
               132:3542
            2:
REFERENCE
               131:113202
REFERENCE
            3:
               131:32155
REFERENCE
            4:
REFERENCE
           5:
               130:223601
            6: 129:257023
REFERENCE
           7: 129:81945
REFERENCE
L12 ANSWER 70 OF 84 REGISTRY COPYRIGHT 2002 ACS
    204318-14-9 REGISTRY
RN
    L-Cysteinamide, N-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-
CN
     1-y1]acetyl]-D-phenylalanyl-L-cysteinyl-L-tyrosyl-D-tryptophyl-L-lysyl-L-
     threonyl-N-[(1R, 2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic
     (2.fwdarw.7)-disulfide (9CI) (CA INDEX NAME)
OTHER NAMES:
    (DOTA-D-Phe1, Tyr3) octreotide
CN
     DOTATOC
CN
     Edotreotide
CN
     SDZ-SMT 487
CN
     SMT 487
CN
     PROTEIN SEQUENCE; STEREOSEARCH
FS
     C65 H92 N14 O18 S2
MF
     COM
CI
     CA
SR
                CA, CAPLUS, PHAR, TOXCENTER, USPATFULL
     STN Files:
LC
```

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$$HO_2C-CH_2$$
 N
 N
 CH_2-CO_2H
 CH_2-CO_2H

12 REFERENCES IN FILE CA (1967 TO DATE)

6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

12 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:275446

REFERENCE 2: 136:272268

REFERENCE 3: 136:196247

REFERENCE 4: 135:149232

REFERENCE 5: 134:152628

REFERENCE 6: 134:127855

Russel 09_783248

REFERENCE 7: 134:2116

REFERENCE 8: 133:234514

REFERENCE 9: 132:9203

REFERENCE 10: 131:239827

L12 ANSWER 71 OF 84 REGISTRY COPYRIGHT 2002 ACS

RN 202932-51-2 REGISTRY

CN D-Lysinamide, N-[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]-D-phenylalanyl-N-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C41 H64 N10 O11 S

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

Russel 09 783248

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:172129

L12 ANSWER 72 OF 84 REGISTRY COPYRIGHT 2002 ACS

RN **193528-92-6** REGISTRY

CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-(9-ethyl-11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,18-heptadecafluoro-10,10-dioxido-2,7-dioxo-10-thia-3,6,9-triazaoctadec-1-yl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C30 H40 F17 N7 O10 S

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

O O O S C (CF2)
$$_7$$
 C CF3 HO2C CH2 N CH2 CO2H

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE) 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:228839

REFERENCE 2: 127:170662

L12 ANSWER 73 OF 84 REGISTRY COPYRIGHT 2002 ACS

RN 192221-19-5 REGISTRY

CN D-Lysinamide, N-[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]-D-seryl-N6-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C35 H60 N10 O12 S

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

PAGE 1-B

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:249059

REFERENCE 2: 127:92211

L12 ANSWER 76 OF 84 REGISTRY COPYRIGHT 2002 ACS

RN 177943-92-9 REGISTRY

CN L-Threonine, N-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]-D-phenylalanyl-L-cysteinyl-L-phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-L-cysteinyl-, cyclic (2.fwdarw.7)-disulfide, acetate (salt) (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C65 H90 N14 O18 S2 . x C2 H4 O2

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CRN 177943-91-8 CMF C65 H90 N14 O18 S2

Absolute stereochemistry.

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CRN 64-19-7 CMF C2 H4 O2

HO-C-CH3

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:59133

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RN 175892-38-3 REGISTRY

CN Chitosan, 2-hydroxyethyl ether, polymer with 10-[2-[(2-aminoethyl)amino]-2-oxoethyl]-.alpha.,.alpha.',.alpha.''-trimethyl-1,4,7,10-tetraazacyclododecane-1,4,7-tricarboxylic acid (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,4,7,10-Tetraazacyclododecane-1,4,7-tricarboxylic acid, 10-[2-[(2-aminoethyl)amino]-2-oxoethyl]-.alpha.,.alpha.',.alpha.''-trimethyl-, polymer with chitosan 2-hydroxyethyl ether (9CI)

MF (C21 H40 N6 O7 . C2 H6 O2 . x Unspecified) x

CI PMS

PCT Manual component, Polyamide, Polyamide formed, Polyamine, Polyester, Polyester formed

SR CF

LC STN Files: CA, CAPLUS, TOXCENTER

CM 1

CRN 149979-17-9 CMF C21 H40 N6 O7

CM 2

CRN 39280-86-9

CMF $C2\ H6\ O2\ .\ x\ Unspecified$

Russel 09 783248

CRN 9012-76-4 CMF Unspecified CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 4

CRN 107-21-1 CMF C2 H6 O2

HO CH2 CH2 OH

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:311363

L12 ANSWER 81 OF 84 REGISTRY COPYRIGHT 2002 ACS

RN **150467-20-2** REGISTRY

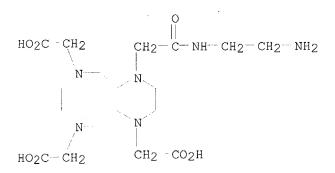
CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[(2-aminoethyl)amino]-2-oxoethyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C18 H34 N6 O7

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:80777

REFERENCE 2: 124:139993

REFERENCE 3: 122:75613

REFERENCE 4: 119:220702

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RN **149979-17-9** REGISTRY

CN 1,4,7,10-Tetraazacyclododecane-1,4,7-tricarboxylic acid, 10-[2-[(2-aminoethyl)amino]-2-oxoethyl]-.alpha.,.alpha.',.alpha.'-trimethyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN DO 3MA

FS 3D CONCORD

MF C21 H40 N6 O7

CI COM

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

5 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:29269

REFERENCE 2: 124:311363

REFERENCE 3: 124:283286

REFERENCE 4: 120:164250

REFERENCE 5: 119:176732

L12 ANSWER 84 OF 84 REGISTRY COPYRIGHT 2002 ACS

RN 149206-87-1 REGISTRY

CN L-Phenylalanine, 4-isothiocyanato-N-[N-[N-[N-[N-[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]glycyl]glycyl]glycyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,4,7,10-Tetraazacyclododecane, L-phenylalanine deriv.

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C32 H45 N9 O12 S

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PAGE 1-A HO₂C Ö CO₂H CO₂H HO₂C

PAGE 1-B

N = C = S

- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 119:90207